



42623-0044\_seq listing  
SEQUENCE LISTING

<110> Romeo, Tony  
Wang, Xin  
Desplas, Rebecca L

<120> E.Coli Mutants

<130> 42623-0044

<140> 10/826,967

<141> 2004-04-16

<150> US 60/464,062

<151> 2003-04-17

<160> 141

<170> PatentIn version 3.2

<210> 1

<211> 33

<212> DNA

<213> Artificial

<220>

<223> primer

<220>

<221> misc\_feature

<222> (21)..(30)

<223> n is a, c, g, or t

<400> 1

ggccacgcgt cgactagtagc nnnnnnnnnn gat

33

<210> 2

<211> 18

<212> DNA

<213> Artificial

<220>

<223> primer

<400> 2

caggctctcc ccgtggag

18

<210> 3

<211> 16

<212> DNA

<213> Artificial

<220>

<223> primer

<400> 3

aaagtgcggg tgatgc

16

<210> 4

## 42623-0044\_seq listing

<211> 20  
 <212> DNA  
 <213> Artificial

<220>  
 <223> primer

<400> 4  
 ggccacgcgt cgactagtac

20

<210> 5  
 <211> 17  
 <212> DNA  
 <213> Artificial

<220>  
 <223> primer

<400> 5  
 ctgcctccca gagcctg

17

<210> 6  
 <211> 23  
 <212> DNA  
 <213> Artificial

<220>  
 <223> primer

<400> 6  
 ctgacgggt ggtgcgtaac ggc

23

<210> 7  
 <211> 22  
 <212> DNA  
 <213> Artificial

<220>  
 <223> primer

<400> 7  
 cactcgtgag cgcttacagc cg

22

<210> 8  
 <211> 23  
 <212> DNA  
 <213> Artificial

<220>  
 <223> primer

<400> 8  
 gattcctcta tttattcgcc cgc

23

<210> 9  
 <211> 23  
 <212> DNA  
 <213> Artificial

# 42623-0044\_seq listing

<220>		
<223>	primer'	
<400>	9	
	ctaatacaacg aggaaaaagg gac	23
<210>	10	
<211>	24	
<212>	DNA	
<213>	Artificial	
<220>		
<223>	primer	
<400>	10	
	aatcggtga atcccacaac ttac	24
<210>	11	
<211>	24	
<212>	DNA	
<213>	Artificial	
<220>		
<223>	primer	
<400>	11	
	cttctgacac atgcagtgga gttg	24
<210>	12	
<211>	26	
<212>	DNA	
<213>	Artificial	
<220>		
<223>	primer	
<400>	12	
	gcgattgtac gctgaaatga aagcac	26
<210>	13	
<211>	24	
<212>	DNA	
<213>	Artificial	
<220>		
<223>	primer	
<400>	13	
	atgccactgc atactgatta accc	24
<210>	14	
<211>	28	
<212>	DNA	
<213>	Artificial	
<220>		
<223>	primer	

## 42623-0044\_seq listing

<400> 14 cggtgcaaat gccagataag acactaac	28
<210> 15 <211> 17 <212> DNA <213> Artificial	
<220> <223> primer	
<400> 15 caggaaacag ctatgac	17
<210> 16 <211> 25 <212> DNA <213> Artificial	
<220> <223> primer	
<400> 16 aaacgtgaac tgatgcaagg atcgc	25
<210> 17 <211> 25 <212> DNA <213> Artificial	
<220> <223> primer	
<400> 17 gatcatcgct ggcttgctga ttggc	25
<210> 18 <211> 27 <212> DNA <213> Artificial	
<220> <223> primer	
<400> 18 gatattgtga actatcgcaa agaatcc	27
<210> 19 <211> 26 <212> DNA <213> Artificial	
<220> <223> primer	
<400> 19 cgatgcacaa tgcaatcttc gttgcc	26



# 42623-0044\_seq listing

<210> 20  
<211> 220  
<212> DNA  
<213> Artificial

<220>  
<223> partial gene with transposon insert

<400> 20  
caggaaacag ctatgaccat gattacgcca agcttggtac cgagctcgga tccactagta 60  
acggccgcca gtgtgctgga attcggctta agccgaattc tgcagatata catcacactg 120  
gcggccgctc gagcatgcat cttagagggcc caattcgccc tatagttagt cgtattacaa 180  
ttcactggcc gtcgtttttac aacgtcgtga ctggcaaaac 220

<210> 21  
<211> 220  
<212> DNA  
<213> Artificial

<220>  
<223> partial gene with transposon insert

<400> 21  
gtcctttgtc gatactggta ctaatgcggt tcgaaccatg gctcgagcct aggtgatcat 60  
tgccggcggt cacacgacct taagccgaat tcggcttaag acgtctatag gtagtgtgac 120  
cgccggcgag ctcgtacgta gatctcccgg gttaagcggg atatcactca gcataatggt 180  
aagtgaccgg cagcaaaatg ttgcagcact gacccttttg 220

<210> 22  
<211> 309  
<212> DNA  
<213> Artificial

<220>  
<223> partial gene with transposon insert

<400> 22  
aaaaacggtt accggatccg ggatcatatg acaagatgtg tatccacctt aacttaatga 60  
tttttaccaa aatcattagg ggattcatca gggtcaggtc tggatttaag ttccatcctt 120  
gatagcctca ccgccgca aaaagcgacg ctaaccccca tttcaaatca gcaatcgctc 180  
tttaccgcta aacttagcgc ctacggtacg ctgaaaagcg cgctgacgac tttccagacc 240  
gccaatactg cattgtctaa agccgatctt ttttcgcca ccagcaccac cagcagcacc 300  
accgcgttc 309

<210> 23  
<211> 326  
<212> DNA

42623-0044\_seq listing

<213> Artificial

<220>

<223> partial gene with transposon insert

<220>

<221> misc\_feature

<222> (293)..(293)

<223> n is a, c, g, or t

<220>

<221> misc\_feature

<222> (295)..(301)

<223> n is a, c, g, or t

<220>

<221> misc\_feature

<222> (324)..(326)

<223> n is a, c, g, or t

<400> 23

aaaaacgggtt accggatccg ggatcatatg acaagatgtg tatccacctt aacttaatga 60

tttttaccaa aatcattagg ggattcatca gagttaagtc ccataccaac catggacgca 120

atgcagaata ttatgcctgg gtacaaaatc atctcaaaga gcatcccgca gatcgcggtg 180

ttggggttaa taagatgcct ggcctggatg tttatatttgc cgctgatgtt tgttacgccg 240

agaaagttgc gcaagaaaaa ggttttttat atcgtttaac atcacgatat ccncnnnnnn 300

ngtactagtc gacgcggggc caannn 326

<210> 24

<211> 164

<212> DNA

<213> Artificial

<220>

<223> partial gene with transposon insert

<220>

<221> misc\_feature

<222> (1)..(1)

<223> n is a, c, g, or t

<220>

<221> misc\_feature

<222> (135)..(136)

<223> n is a, c, g, or t

<220>

<221> misc\_feature

<222> (138)..(139)

<223> n is a, c, g, or t

<220>

<221> misc\_feature

<222> (141)..(141)

<223> n is a, c, g, or t

# 42623-0044\_seq listing

<220>  
 <221> misc\_feature  
 <222> (143)..(143)  
 <223> n is a, c, g, or t

<220>  
 <221> misc\_feature  
 <222> (145)..(145)  
 <223> n is a, c, g, or t

<400> 24  
 naaaaacccg cggacatcc cggatccggg atcatatgac aagatgtgta tccaccttaa 60  
 cttaatgatt tttaacaaaa tcattagggg attcatcagt gttcaacctg ctgcgtcgta 120  
 gcccgatat atccnncnnc ncngnactag tcgacgcgtg gccca 164

<210> 25  
 <211> 296  
 <212> DNA  
 <213> Artificial

<220>  
 <223> partial gene with transposon insert

<220>  
 <221> misc\_feature  
 <222> (6)..(6)  
 <223> n is a, c, g, or t

<220>  
 <221> misc\_feature  
 <222> (92)..(92)  
 <223> n is a, c, g, or t

<220>  
 <221> misc\_feature  
 <222> (134)..(135)  
 <223> n is a, c, g, or t

<220>  
 <221> misc\_feature  
 <222> (139)..(139)  
 <223> n is a, c, g, or t

<220>  
 <221> misc\_feature  
 <222> (149)..(149)  
 <223> n is a, c, g, or t

<220>  
 <221> misc\_feature  
 <222> (152)..(152)  
 <223> n is a, c, g, or t

<220>  
 <221> misc\_feature  
 <222> (155)..(155)  
 <223> n is a, c, g, or t

# 42623-0044\_seq listing

<220>  
 <221> misc\_feature  
 <222> (157)..(157)  
 <223> n is a, c, g, or t

<220>  
 <221> misc\_feature  
 <222> (163)..(163)  
 <223> n is a, c, g, or t

<220>  
 <221> misc\_feature  
 <222> (170)..(171)  
 <223> n is a, c, g, or t

<220>  
 <221> misc\_feature  
 <222> (226)..(226)  
 <223> n is a, c, g, or t

<400> 25  
 aacggnccga tccgggatca tatgacaaga tgtgtatcca ccttaactta atgattttta 60  
 ccaaaatcat taggggattc atcagagatc ancctgaatt ccagtgatcc gcttcctact 120  
 gttacgcat tcanngccng caatgcggnt anctntnaca aanaaggtn ngtgactgtt 180  
 ttccacagtc atggtaatgc tcatgacatg agcgtctact ttgtgnaccc ggggataata 240  
 actggcaggt ctacaccag gatagcagt atccaaacag cattgcgaag acagcg 296

<210> 26  
 <211> 317  
 <212> DNA  
 <213> Artificial

<220>  
 <223> partial gene with transposon insert

<400> 26  
 aaacggttac cggatccggg atcatatgac aagatgtgta tccaccttaa cttaatgatt 60  
 ttaccaaaa tcattagggg attcatcagt gcttacacct ggcagccgat ctatcaaaca 120  
 tgcgggagggt taatggccgt ggagctatta acggtgggtca cgcattccctt gaacccttcg 180  
 caacgcctgc cgccggatcg ctattttact gaaatcaccg tcagccatcg gatggaggtt 240  
 gtgaaagagc agattgattt gctggcgcaa aaagccgact tctttataga gcacggcctg 300  
 ctggcatcgg tcaatat 317

<210> 27  
 <211> 371  
 <212> DNA  
 <213> Artificial

<220>  
 <223> partial gene with transposon insert

# 42623-0044\_seq listing

<220>  
 <221> misc\_feature  
 <222> (350)..(350)  
 <223> n is a, c, g, or t

<220>  
 <221> misc\_feature  
 <222> (352)..(352)  
 <223> n is a, c, g, or t

<220>  
 <221> misc\_feature  
 <222> (354)..(358)  
 <223> n is a, c, g, or t

<400> 27  
 aaacggttac cggatccggg atcatatgac aagatgtgta tccaccttaa cttaatgatt 60  
 tttacaaaa tcattagggg attcatcagc ttcaagcgcc agtttcaaca tgcggttgat 120  
 gacgcgctgt tcggtatggg taaactcgcg accttcact ttggtcggga agcgtccatc 180  
 gccgcaaac aggttatcca cggcgataaa caccagactc ggtgagaaca ccaccagccc 240  
 agtgccgcgc agcggtttca gatggataag gttcaggttg gtcggcaccg gcaggttgcg 300  
 ggcaaattca tggtagcgct gaatgcggat ggccccgacg gttatatccn gncnnnnngt 360  
 actagtcgac g 371

<210> 28  
 <211> 374  
 <212> DNA  
 <213> Artificial

<220>  
 <223> partial gene with transposon insert

<400> 28  
 aaacggttac cggatccggg atcatatgac aagatgtgta tccaccttaa cttaatgatt 60  
 tttacaaaa tcattagggg attcatcagt atccagcccc aacgtatgga aagtggagat 120  
 catcagccca cgcgcctctt tgcgccccag cgtctgccct acacgctctt tcattctcgcg 180  
 cgctgcttta ttagtaaagg tcaccgccgc aatgtgccgc gcctgataac cgcaaccgcg 240  
 gatcagatgg gcgattttat tggtagataac acgagtttta ccggaaccgc cgcccgccag 300  
 caccaggcag gggccggtaa cgaattcgac agcttgttgt tggccggggg ttagacgcat 360  
 aggtgtattg ctca 374

<210> 29  
 <211> 311  
 <212> DNA  
 <213> Artificial

<220>  
 <223> partial gene with transposon insert

# 42623-0044\_seq listing

<220>  
 <221> misc\_feature  
 <222> (4)..(4)  
 <223> n is a, c, g, or t

<400> 29  
 cggncggat cggggatcat atgacaagat gtgtatccac cttaacttaa tgatttttac 60  
 caaaatcatt aggggattca tcagtggtag gcattctacat aaattttgtc gatcaccggt 120  
 gacataataa aaaaggtcaa aaacagtgcc agccccagca atacctggtt aggtggcgcg 180  
 cggagggtgt tcccagcgcg ttacgcaata aacaaaaaac aatgatgatg cgggtgaaac 240  
 tggatcatcat cagtaaaatt gccggaataa acgtcaacga ggtgatgaac accagcgtct 300  
 gcaccgggag c 311

<210> 30  
 <211> 398  
 <212> DNA  
 <213> Artificial

<220>  
 <223> partial gene with transposon insert

<220>  
 <221> misc\_feature  
 <222> (1)..(2)  
 <223> n is a, c, g, or t

<220>  
 <221> misc\_feature  
 <222> (4)..(5)  
 <223> n is a, c, g, or t

<220>  
 <221> misc\_feature  
 <222> (10)..(10)  
 <223> n is a, c, g, or t

<220>  
 <221> misc\_feature  
 <222> (15)..(16)  
 <223> n is a, c, g, or t

<220>  
 <221> misc\_feature  
 <222> (23)..(23)  
 <223> n is a, c, g, or t

<220>  
 <221> misc\_feature  
 <222> (153)..(153)  
 <223> n is a, c, g, or t

<220>  
 <221> misc\_feature  
 <222> (165)..(165)  
 <223> n is a, c, g, or t

# 42623-0044\_seq Listing

<220>  
 <221> misc\_feature  
 <222> (179)..(179)  
 <223> n is a, c, g, or t

<220>  
 <221> misc\_feature  
 <222> (189)..(189)  
 <223> n is a, c, g, or t

<220>  
 <221> misc\_feature  
 <222> (198)..(198)  
 <223> n is a, c, g, or t

<220>  
 <221> misc\_feature  
 <222> (207)..(207)  
 <223> n is a, c, g, or t

<220>  
 <221> misc\_feature  
 <222> (232)..(232)  
 <223> n is a, c, g, or t

<220>  
 <221> misc\_feature  
 <222> (243)..(243)  
 <223> n is a, c, g, or t

<220>  
 <221> misc\_feature  
 <222> (248)..(248)  
 <223> n is a, c, g, or t

<220>  
 <221> misc\_feature  
 <222> (256)..(256)  
 <223> n is a, c, g, or t

<220>  
 <221> misc\_feature  
 <222> (258)..(258)  
 <223> n is a, c, g, or t

<220>  
 <221> misc\_feature  
 <222> (268)..(269)  
 <223> n is a, c, g, or t

<220>  
 <221> misc\_feature  
 <222> (279)..(279)  
 <223> n is a, c, g, or t

<220>  
 <221> misc\_feature  
 <222> (287)..(287)  
 <223> n is a, c, g, or t

<220>  
 <221> misc\_feature

# 42623-0044\_seq listing

```

<222> (289)..(289)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (292)..(292)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (304)..(304)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (306)..(306)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (310)..(310)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (310)..(313)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (317)..(317)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (319)..(319)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (325)..(326)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (328)..(328)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (332)..(332)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (337)..(337)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (341)..(342)
<223> n is a, c, g, or t

```



# 42623-0044\_seq Listing

```

<220>
<221> misc_feature
<222> (344)..(345)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (347)..(347)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (350)..(350)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (355)..(355)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (357)..(357)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (361)..(362)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (365)..(365)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (367)..(367)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (370)..(371)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (375)..(375)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (379)..(381)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (385)..(386)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (388)..(389)

```

42623-0044\_seq listing

<223> n is a, c, g, or t

<220>

<221> misc\_feature

<222> (391)..(391)

<223> n is a, c, g, or t

<220>

<221> misc\_feature

<222> (396)..(396)

<223> n is a, c, g, or t

<400> 30

nncnnaacan acggnnccgg ccnggatcat atgacaagat gtgtatccac cttacttaaa 60

tgatttttac caaaatcatt aggggattca tcagcggcga gctggcgag aaaatcatcg 120

acgagatgtt cctgttcgag aatctggtgg atntcgccaa tcgcngtact agtcgacgng 180

tggccaaant ggattccnaa tcgctgntga tcgcgctgaa aggagccgag cngtcactgt 240

gcnagaantt cttgcncnat atgtcgcnc gtgccgcna tatcccnnc cnaccgtacc 300

cctngnacgn nnnaccngna ccccnntncc gncaagnatg nnannancn gatanancag 360

nncantnctn ngatncacnn natannanng ncccnac 398

<210> 31

<211> 312

<212> DNA

<213> Artificial

<220>

<223> partial gene with transposon insert

<220>

<221> misc\_feature

<222> (196)..(196)

<223> n is a, c, g, or t

<220>

<221> misc\_feature

<222> (202)..(202)

<223> n is a, c, g, or t

<220>

<221> misc\_feature

<222> (207)..(207)

<223> n is a, c, g, or t

<220>

<221> misc\_feature

<222> (214)..(214)

<223> n is a, c, g, or t

<400> 31

aaacggttac cggatccggg atcatatgac aagatgtgta tccaccttaa cttaatgatt 60

tttacaaaa tcattagggg attcatcagg gtcaggcatg ctctcgatt ctggaagcgt 120

taaaaaataa tcggatatca ctatgagttt tgcgaccatt tctgttatcg gactgggtta 180

# 42623-0044\_seq listing

tatcgggctg ccaacngcta cncgacncgc gccncggcaa aaacaggtaa ttggtgtcga	240
tatcaaccaa catgcggttg ataccatcaa tcgtggccaa atccatatcc ccccccccg	300
tactagtcga cg	312

<210> 32  
 <211> 250  
 <212> DNA  
 <213> Artificial

<220>  
 <223> partial gene with transposon insert

<220>  
 <221> misc\_feature  
 <222> (4)..(4)  
 <223> n is a, c, g, or t

<220>  
 <221> misc\_feature  
 <222> (217)..(219)  
 <223> n is a, c, g, or t

<220>  
 <221> misc\_feature  
 <222> (245)..(245)  
 <223> n is a, c, g, or t

<220>  
 <221> misc\_feature  
 <222> (247)..(250)  
 <223> n is a, c, g, or t

<400> 32 cgnccggat ccgggatcat atgacaagat gtgtatccac cttaacttaa tgatttttac	60
caaatcatt aggggattca tcagtgccgc gcacggcaaa tccgaatgca aaaatcgcac	120
taatctcaaa agtatacccg atgcgtagcc ataccgttgc tgcagaaggg ggctccgccg	180
ctgtcgcgca ggatcatgac agcttcgaat atcccnhnc ccccgacta gtcgacgccg	240
tgaanannnn	250

<210> 33  
 <211> 316  
 <212> DNA  
 <213> Artificial

<220>  
 <223> partial gene with transposon insert

<220>  
 <221> misc\_feature  
 <222> (178)..(178)  
 <223> n is a, c, g, or t

# 42623-0044\_seq listing

<220>  
 <221> misc\_feature  
 <222> (185)..(185)  
 <223> n is a, c, g, or t

<220>  
 <221> misc\_feature  
 <222> (188)..(188)  
 <223> n is a, c, g, or t

<220>  
 <221> misc\_feature  
 <222> (195)..(195)  
 <223> n is a, c, g, or t

<220>  
 <221> misc\_feature  
 <222> (210)..(210)  
 <223> n is a, c, g, or t

<220>  
 <221> misc\_feature  
 <222> (213)..(213)  
 <223> n is a, c, g, or t

<400> 33  
 aacgtaccgg atccgggatc atatgacaag atgtgtatcc accttaactt aatgattttt 60  
 accaaaatca ttaggggatt catcagggcg cagccgctgc gtgagtttat gctgcgtcag 120  
 acccgtgagg cagatttagg gttgtttgcc agactggcga atatcggccc gttgcgtnct 180  
 actcnacncg tgccnatgcg catTTTTgctn ccngcctacg tgaccagcga gttgaaaacc 240  
 gcatttcaga tacggcttca cagattttca tccctttttt gattatcgac ctggtgatag 300  
 ccagcgtggt gatggc 316

<210> 34  
 <211> 276  
 <212> DNA  
 <213> Artificial

<220>  
 <223> partial gene with transposon insert

<220>  
 <221> misc\_feature  
 <222> (10)..(11)  
 <223> n is a, c, g, or t

<400> 34  
 atgaaaacgn nccggatccg ggatcatatg acaagatgtg tatccacctt aacttaatga 60  
 tttttaccaa aatcattagg ggattcatca gtactcaact tccagcggat taatcgctt 120  
 ccaggcgtcg ctatagcctt caagcgccag tttcaacatg cggttgatga cgcgctgttc 180  
 ggtatgggta aactcgcgac cttccacttt ggtcgggaag cgtccatcgc cgccaaacag 240  
 gttatccacg gcgataaaca ccagactcgg tgagaa 276

# 42623-0044\_seq listing

<210> 35  
<211> 332  
<212> DNA  
<213> Artificial

<220>  
<223> partial gene with transposon insert

<400> 35  
cgtaccggat ccgggatcat atgacaagat gtgtatccac cttaacttaa tgatttttac 60  
caaaatcatt aggggattca tcagggcgca gcccgtgctg tgagtttatg ctgcgtcaga 120  
cccgtgaggc agatttaggg ttgtttgcca gactggcgaa taccggcccc ttgcagggac 180  
ctgaagccgt gccgatgctg attttgctcc cggcctacgt gaccagcgag ttgaaaaccg 240  
catttcagat aggcttcacg attttcatcc cttttttgat tatcgacctg gtgatagcca 300  
gcgtgttgat ggcattgggg atgatgatgg tt 332

<210> 36  
<211> 215  
<212> DNA  
<213> Artificial

<220>  
<223> partial gene with transposon insert

<220>  
<221> misc\_feature  
<222> (1)..(1)  
<223> n is a, c, g, or t

<220>  
<221> misc\_feature  
<222> (3)..(5)  
<223> n is a, c, g, or t

<220>  
<221> misc\_feature  
<222> (11)..(11)  
<223> n is a, c, g, or t

<220>  
<221> misc\_feature  
<222> (186)..(194)  
<223> n is a, c, g, or t

<400> 36  
ngnnnatacg nccggatccg ggatcatatg acaagatgtg tatccacctt aacttaatga 60  
tttttaccaa aatcattagg ggattcatca gtattaagcg tgaatgatgc cagagcgcaa 120  
agcgttcaat ggtttgagta aggggcaaaa caggcgggat ttagggcttt tgctgccaca 180  
tatccnnnnn nnnngtacta gtcgacgcgt ggcca 215

# 42623-0044\_seq listing

<210> 37  
 <211> 394  
 <212> DNA  
 <213> Artificial

<220>  
 <223> partial gene with transposon insert

<220>  
 <221> misc\_feature  
 <222> (7)..(7)  
 <223> n is a, c, g or t

<220>  
 <221> misc\_feature  
 <222> (114)..(114)  
 <223> n is a, c, g or t

<220>  
 <221> misc\_feature  
 <222> (118)..(118)  
 <223> n is a, c, g or t

<220>  
 <221> misc\_feature  
 <222> (135)..(135)  
 <223> n is a, c, g or t

<220>  
 <221> misc\_feature  
 <222> (149)..(150)  
 <223> n is a, c, g or t

<220>  
 <221> misc\_feature  
 <222> (161)..(161)  
 <223> n is a, c, g or t

<220>  
 <221> misc\_feature  
 <222> (172)..(172)  
 <223> n is a, c, g or t

<220>  
 <221> misc\_feature  
 <222> (194)..(194)  
 <223> n is a, c, g or t

<220>  
 <221> misc\_feature  
 <222> (201)..(202)  
 <223> n is a, c, g or t

<220>  
 <221> misc\_feature  
 <222> (215)..(215)  
 <223> n is a, c, g or t

<220>  
 <221> misc\_feature  
 <222> (229)..(229)  
 <223> n is a, c, g or t

# 42623-0044\_seq listing

<220>  
 <221> misc\_feature  
 <222> (232)..(232)  
 <223> n is a, c, g or t

<220>  
 <221> misc\_feature  
 <222> (246)..(246)  
 <223> n is a, c, g or t

<220>  
 <221> misc\_feature  
 <222> (249)..(249)  
 <223> n is a, c, g or t

<220>  
 <221> misc\_feature  
 <222> (257)..(257)  
 <223> n is a, c, g or t

<220>  
 <221> misc\_feature  
 <222> (275)..(275)  
 <223> n is a, c, g or t

<220>  
 <221> misc\_feature  
 <222> (277)..(277)  
 <223> n is a, c, g or t

<220>  
 <221> misc\_feature  
 <222> (280)..(280)  
 <223> n is a, c, g or t

<220>  
 <221> misc\_feature  
 <222> (285)..(285)  
 <223> n is a, c, g or t

<220>  
 <221> misc\_feature  
 <222> (290)..(290)  
 <223> n is a, c, g or t

<220>  
 <221> misc\_feature  
 <222> (292)..(294)  
 <223> n is a, c, g or t

<220>  
 <221> misc\_feature  
 <222> (298)..(298)  
 <223> n is a, c, g or t

<220>  
 <221> misc\_feature  
 <222> (300)..(304)  
 <223> n is a, c, g or t

<220>  
 <221> misc\_feature

# 42623-0044\_seq listing

```

<222> (310)..(310)
<223> n is a, c, g or t

<220>
<221> misc_feature
<222> (314)..(314)
<223> n is a, c, g or t

<220>
<221> misc_feature
<222> (319)..(321)
<223> n is a, c, g or t

<220>
<221> misc_feature
<222> (323)..(323)
<223> n is a, c, g or t

<220>
<221> misc_feature
<222> (327)..(327)
<223> n is a, c, g or t

<220>
<221> misc_feature
<222> (330)..(330)
<223> n is a, c, g or t

<220>
<221> misc_feature
<222> (332)..(332)
<223> n is a, c, g or t

<220>
<221> misc_feature
<222> (334)..(336)
<223> n is a, c, g or t

<220>
<221> misc_feature
<222> (346)..(346)
<223> n is a, c, g or t

<220>
<221> misc_feature
<222> (349)..(350)
<223> n is a, c, g or t

<220>
<221> misc_feature
<222> (354)..(354)
<223> n is a, c, g or t

<220>
<221> misc_feature
<222> (358)..(358)
<223> n is a, c, g or t

<220>
<221> misc_feature
<222> (364)..(364)
<223> n is a, c, g or t

```



# 42623-0044\_seq listing

<220>  
 <221> misc\_feature  
 <222> (369)..(369)  
 <223> n is a, c, g or t

<220>  
 <221> misc\_feature  
 <222> (372)..(374)  
 <223> n is a, c, g or t

<220>  
 <221> misc\_feature  
 <222> (380)..(380)  
 <223> n is a, c, g or t

<220>  
 <221> misc\_feature  
 <222> (383)..(384)  
 <223> n is a, c, g or t

<220>  
 <221> misc\_feature  
 <222> (388)..(388)  
 <223> n is a, c, g or t

<220>  
 <221> misc\_feature  
 <222> (390)..(392)  
 <223> n is a, c, g or t

<400> 37  
 aaacggnccg gatccgggat catatgacaa gatgtgtatc caccttaact taatgatttt 60  
 taccaaaatc attaggggat tcatcagtat gtgtaccgtg tattggcgct aagngtgnga 120  
 agcttttttt ccaantacca tgcttgccnn atgaccataa ngttgcgata tnttcattcc 180  
 gtgcatgcaa acancgtacc nncagcgcca ccatncaact gatgcgtcng antaatgacc 240  
 aggttntant tattctntcg cccgagcctc atcancnaan gtcnctttt tnnncggnan 300  
 nnnnatTTTT cccngtctnn ntnttgnttn antnnnttac gcggcnacnn attngttntg 360  
 gtcntacng cnnnataacn gcnnctcncn nncc 394

<210> 38  
 <211> 450  
 <212> DNA  
 <213> Artificial

<220>  
 <223> partial gene with transposon insert

<220>  
 <221> misc\_feature  
 <222> (3)..(3)  
 <223> n is a, c, g, or t

<220>  
 <221> misc\_feature  
 <222> (442)..(442)

# 42623-0044\_seq listing

<223> n is a, c, g, or t

<220>

<221> misc\_feature

<222> (449)..(449)

<223> n is a, c, g, or t

<400> 38

cgncggatcc gggatcatat gacaagatgt gtatccacct taacttaatg atttttacca 60

aaatcattag gggattcatc agcgtttcgc ccctattaca gactcacaac cacatgatga 120

ccgaatatat agtggagacg tttagatggg taaaataatt ggtatcgacc tgggtactac 180

caactcttgt gtagcgatta tggatggcac cactcctcgc gtgctggaga acgccgaagg 240

cgatcgcacc acgccttcta tcattgccta taccaggat ggtgaaactc tagttggtca 300

gccggctaaa cgtcaggcag tgacgaaccc gcaaaacact ctgtttgcga ttaaagcct 360

gattggtcgc cgcttcagg acgaagaagt acagcgtgat gtttccatca tgccgttcaa 420

aattattgct gctgatatcc cccccccng 450

<210> 39

<211> 300

<212> DNA

<213> Artificial

<220>

<223> partial gene with transposon insert

<400> 39

taccggatcc gggatatatg acaagatgtg tatccacctt aacttaatga tttttaccaa 60

aatcattagg ggattcatca gcttcaagcg ccagtttcaa catgcggttg atgacgcgct 120

gttcggtatg ggtaaactcg cgaccttcca ctttggtcgg gaagcgtcca tcgccgcaa 180

acaggttatc cacggcgata aacaccagac tcggtgagaa caccaccagc ccagtgccgc 240

gcagcggttt cagatggata aggttcaggt tggtcggcac cggcaggttg cgggcaaatt 300

<210> 40

<211> 300

<212> DNA

<213> Artificial

<220>

<223> partial gene with transposon insert

<220>

<221> misc\_feature

<222> (1)..(2)

<223> n is a, c, g, or t

<220>

<221> misc\_feature

<222> (6)..(6)

<223> n is a, c, g, or t

# 42623-0044\_seq listing

```
<400> 40
nncgtncggg atattgacaa gatgtgtatc caccttaact taatgatttt taccaaaatc      60
attaggggat tcatcagcgc ttgaaggcta tagcgacgcc tggaaggcga ttaatccgct      120
ggaagttgag tacgtgcggt cggaatgca ggtgaaatth accaatatca ccacctcgcc      180
gaacgacatt gtggttaaca cgccgttcca tgtggagatt ggcaacctga ccggcgaatt      240
taatatctgc ctgccattca gcatgatcga gccgctacgg gaattgttgg ttaaccgcc      300
```

```
<210> 41
<211> 250
<212> DNA
<213> Artificial
```

```
<220>
<223> partial gene with transposon insert
```

```
<220>
<221> misc_feature
<222> (2)..(2)
<223> n is a, c, g, or t
```

```
<400> 41
anccgatccg ggatatatga caagatgtgt atccacctta acttaatgat ttttaccaaa      60
atcattaggg gattcatcag cgcttgaagg ctatagcgac gcctggaagg cgattaatcc      120
gctggaagtt gagtacgtgc gttcggaat gcaggtgaaa tttaccaata tcaccacctc      180
gccgaacgac attgtgggta acacgccgtt ccatgtggag attggcaacc tgaccggcga      240
atttaatatc                                     250
```

```
<210> 42
<211> 260
<212> DNA
<213> Artificial
```

```
<220>
<223> partial gene with transposon insert
```

```
<220>
<221> misc_feature
<222> (3)..(3)
<223> n is a, c, g, or t
```

```
<220>
<221> misc_feature
<222> (229)..(237)
<223> n is a, c, g, or t
```

```
<400> 42
cgnccgatc cgggatcata tgacaagatg tgtatcccct taacttaatg atttttacca      60
aatcattag gggattcatc agcaccctgc attcgcagga gcggagaaac atccgccgga      120
```

# 42623-0044\_seq listing

gcggcaatca ccactgagcg tgcacgccct tcggcaccga ggatgttctc aataaaatct	180
tttacttcgc gcccacgttc accaatcaaa cccacgacaa tgatatccnn nnnnnnngta	240
ctagtcgacg cgtggccaat	260

<210> 43  
 <211> 378  
 <212> DNA  
 <213> Artificial

<220>  
 <223> partial gene with transposon insert

<220>  
 <221> misc\_feature  
 <222> (3)..(3)  
 <223> n is a, c, g, or t

<220>  
 <221> misc\_feature  
 <222> (119)..(119)  
 <223> n is a, c, g, or t

<220>  
 <221> misc\_feature  
 <222> (349)..(353)  
 <223> n is a, c, g, or t

<220>  
 <221> misc\_feature  
 <222> (355)..(357)  
 <223> n is a, c, g, or t

<400> 43 tangaaaaac gtaccggatc cgggatcata tgacaagatg tgtatccacc ttaacttaat	60
gatttttacc aaaatcatta ggggattcat cagcgctcca gcccctggag agacgcttnc	120
cagtccgcgc gttcaaaaat gccttggtgc aaatagccct ccagctgcgg ccacagggcg	180
atggctttat cgagcatcgg atcgctgcct ttggcatacg cgccgacgct aaccagatcg	240
cggttacgct gaaaactcga caacagctgt ttgaaggtgc gactcgcgc gtaatgttgc	300
tcactgatca acgccgtcat tgcgcggctg atcgacgctt caatatccnn nnnnnnngta	360
ctagtcgacg cgtggcca	378

<210> 44  
 <211> 207  
 <212> DNA  
 <213> Artificial

<220>  
 <223> partial gene with transposon insert

<220>  
 <221> misc\_feature

# 42623-0044\_seq listing

<222> (4)..(4)  
<223> n is a, c, g, or t

<220>  
<221> misc\_feature  
<222> (13)..(13)  
<223> n is a, c, g, or t

<220>  
<221> misc\_feature  
<222> (181)..(181)  
<223> n is a, c, g, or t

<220>  
<221> misc\_feature  
<222> (183)..(183)  
<223> n is a, c, g, or t

<220>  
<221> misc\_feature  
<222> (185)..(191)  
<223> n is a, c, g, or t

<220>  
<221> misc\_feature  
<222> (197)..(199)  
<223> n is a, c, g, or t

<220>  
<221> misc\_feature  
<222> (202)..(202)  
<223> n is a, c, g, or t

<220>  
<221> misc\_feature  
<222> (206)..(206)  
<223> n is a, c, g, or t

<400> 44  
agcncgccgg acntcccgga tccgggatca tatgacaaga tgtgtatcca ccttaactta 60  
atgattttta ccaaaatcat taggggattc atcagagtcg ctagtgga aa agccatttcg 120  
aaaaatcctg gtcataaaga tgcgatatcc cccaccgcg tactagtcga cgcgtggcca 180  
nanannnnnn ncggcannnc cncccnt 207

<210> 45  
<211> 351  
<212> DNA  
<213> Artificial

<220>  
<223> partial gene with transposon insert

<220>  
<221> misc\_feature  
<222> (179)..(179)  
<223> n is a, c, g, or t

<220>

## 42623-0044\_seq listing

<221> misc\_feature  
<222> (181)..(181)  
<223> n is a, c, g, or t

<220>  
<221> misc\_feature  
<222> (196)..(196)  
<223> n is a, c, g, or t

<220>  
<221> misc\_feature  
<222> (246)..(246)  
<223> n is a, c, g, or t

<220>  
<221> misc\_feature  
<222> (248)..(248)  
<223> n is a, c, g, or t

<220>  
<221> misc\_feature  
<222> (256)..(256)  
<223> n is a, c, g, or t

<220>  
<221> misc\_feature  
<222> (261)..(261)  
<223> n is a, c, g, or t

<220>  
<221> misc\_feature  
<222> (276)..(277)  
<223> n is a, c, g, or t

<220>  
<221> misc\_feature  
<222> (279)..(279)  
<223> n is a, c, g, or t

<220>  
<221> misc\_feature  
<222> (293)..(293)  
<223> n is a, c, g, or t

<220>  
<221> misc\_feature  
<222> (300)..(300)  
<223> n is a, c, g, or t

<220>  
<221> misc\_feature  
<222> (302)..(302)  
<223> n is a, c, g, or t

<220>  
<221> misc\_feature  
<222> (324)..(324)  
<223> n is a, c, g, or t

<220>  
<221> misc\_feature  
<222> (331)..(331)  
<223> n is a, c, g, or t

# 42623-0044\_seq listing

<220>  
 <221> misc\_feature  
 <222> (339)..(339)  
 <223> n is a, c, g, or t

<220>  
 <221> misc\_feature  
 <222> (350)..(350)  
 <223> n is a, c, g, or t

<400> 45  
 atacccgatc cgggatcata tgacaagatg tgtatccacc ttaacttaat gatttttacc 60  
 aaaatcatta ggggattcat cagcgcattg catcaacagt tgccgcacgg ggccaccatg 120  
 ttcggttata tacacagtcg tgggaaggcg attgcccgaag agcatttgag cttattcang 180  
 ngccagttaa gtcccntacc aaccatggac gcaatgcaga atattatgcc tgggtacaaa 240  
 atcatntnaa acagcntccc ncaggatctg tgtcgnngng ttcaattatt atnccctcgn 300  
 cnggattatc ttatttgcct gctnaatgtc ngctttctna ttcttaaatt t 351

<210> 46  
 <211> 276  
 <212> DNA  
 <213> Artificial

<220>  
 <223> partial gene with transposon insert

<220>  
 <221> misc\_feature  
 <222> (1)..(1)  
 <223> n is a, c, g, or t

<220>  
 <221> misc\_feature  
 <222> (10)..(10)  
 <223> n is a, c, g, or t

<400> 46  
 ngaaaacggn ccggatccgg gatcatatga caagatgtgt atccacctta acttaatgat 60  
 ttttaccaaa atcattaggg gattcatcag cgcttgaagg ctatagcgac gcctggaagg 120  
 cgattaatcc gctggaagtt gagtacgtgc gttcggaagt gcaggtgaaa tttaccaata 180  
 tcaccacctc gccgaacgac attgtggtta acacgccgtt ccatgtggag attggcaacc 240  
 tgaccggcga atttaatatc tgcctgccat tcagca 276

<210> 47  
 <211> 300  
 <212> DNA  
 <213> Artificial

<220>  
 <223> partial gene with transposon insert

# 42623-0044\_seq listing

<220>  
 <221> misc\_feature  
 <222> (2)..(2)  
 <223> n is a, c, g, or t

<400> 47  
 cncgatccgg gatcattgac aagatgtgta tccaccttaa cttaatgatt ttacacaaa 60  
 tcattagggg attcatcaga ttcaggtgcg taataagctg gtggcggcgt atcaggaagt 120  
 gatgagcatg caggtgtagg ttttgaacc tgttgtaa tacatccgat ctcaccgcgt 180  
 ggggcatgga tggggcaaac tcactcaatt tctggtttaa aatggatacc tgatcctgaa 240  
 cgttttctgc catccacgat ccgtatacgc gataaccccc ctgaacatca gagcgtctca 300

<210> 48  
 <211> 337  
 <212> DNA  
 <213> Artificial

<220>  
 <223> partial gene with transposon insert

<220>  
 <221> misc\_feature  
 <222> (1)..(1)  
 <223> n is a, c, g, or t

<220>  
 <221> misc\_feature  
 <222> (8)..(8)  
 <223> n is a, c, g, or t

<220>  
 <221> misc\_feature  
 <222> (306)..(307)  
 <223> n is a, c, g, or t

<400> 48  
 naaaacgncc ggatccggga tcatatgaca agatgtgtat ccaccttaac ttaatgattt 60  
 ttacacaaat cattagggga ttcacaggg gttaatacca gtttttcgcg ctccggcaac 120  
 gtttcgatgg cttccatcac ccgctggcgc agattactgt ccagtagttg ttgtagcggg 180  
 ttttctcgct gatgatcatc agtaaccagt tcgatgctat cgccgtgctc ttcgcgccac 240  
 tcatcgtagg agaagagctg gctgttattg gtgtcgagca acatttggcg ataatcggca 300  
 atatcnccc ccccgact agtcgacgcg tggccaa 337

<210> 49  
 <211> 351  
 <212> DNA  
 <213> Artificial

<220>



<223> partial gene with transposon insert

<220>

<221> misc\_feature

<222> (5)..(5)

<223> n is a, c, g, or t

<220>

<221> misc\_feature

<222> (269)..(269)

<223> n is a, c, g, or t

<220>

<221> misc\_feature

<222> (276)..(277)

<223> n is a, c, g, or t

<220>

<221> misc\_feature

<222> (299)..(300)

<223> n is a, c, g, or t

<220>

<221> misc\_feature

<222> (306)..(306)

<223> n is a, c, g, or t

<220>

<221> misc\_feature

<222> (313)..(313)

<223> n is a, c, g, or t

<220>

<221> misc\_feature

<222> (315)..(315)

<223> n is a, c, g, or t

<220>

<221> misc\_feature

<222> (318)..(318)

<223> n is a, c, g, or t

<220>

<221> misc\_feature

<222> (322)..(322)

<223> n is a, c, g, or t

<220>

<221> misc\_feature

<222> (328)..(328)

<223> n is a, c, g, or t

<220>

<221> misc\_feature

<222> (333)..(333)

<223> n is a, c, g, or t

<220>

<221> misc\_feature

<222> (339)..(339)

<223> n is a, c, g, or t

# 42623-0044\_seq listing

<220>  
 <221> misc\_feature  
 <222> (350)..(350)  
 <223> n is a, c, g, or t

<400> 49  
 atacncgacc gggatcatat gacaagatgt gtatccacct taacttaatg atttttacca 60  
 aaatcattag gggattcatc agagtttagc tgctgccaac gcagcctgac aaagtgcggg 120  
 atcgccacct tcaggtttga tatccagtaa cataccatcg ggtgccagtt ttatgcgcag 180  
 cgtacagggtt ttgcctgcat aggacgatgc gtcatagaac ttactttcga tagcagattt 240  
 aatctgccccg gcatagttat tgatatccnc ccccnngta ctagtcgacg cgtggccann 300  
 tattcngata tcncncncgc cngtctantc ccncgtggnc atatctgatn c 351

<210> 50  
 <211> 172  
 <212> DNA  
 <213> Artificial

<220>  
 <223> partial gene with transposon insert

<220>  
 <221> misc\_feature  
 <222> (2)..(3)  
 <223> n is a, c, g, or t

<220>  
 <221> misc\_feature  
 <222> (5)..(5)  
 <223> n is a, c, g, or t

<220>  
 <221> misc\_feature  
 <222> (8)..(8)  
 <223> n is a, c, g, or t

<220>  
 <221> misc\_feature  
 <222> (12)..(12)  
 <223> n is a, c, g, or t

<220>  
 <221> misc\_feature  
 <222> (112)..(112)  
 <223> n is a, c, g, or t

<220>  
 <221> misc\_feature  
 <222> (128)..(128)  
 <223> n is a, c, g, or t

<220>  
 <221> misc\_feature  
 <222> (137)..(137)  
 <223> n is a, c, g, or t

# 42623-0044\_seq listing

<220>  
 <221> misc\_feature  
 <222> (142)..(142)  
 <223> n is a, c, g, or t

<220>  
 <221> misc\_feature  
 <222> (147)..(147)  
 <223> n is a, c, g, or t

<220>  
 <221> misc\_feature  
 <222> (150)..(150)  
 <223> n is a, c, g, or t

<220>  
 <221> misc\_feature  
 <222> (157)..(158)  
 <223> n is a, c, g, or t

<400> 50  
 annghaanag cncgccggac atcccggatc cgggatcata tgcacaagat gtgtatccac 60  
 cttaacttaa tgatttttac caaaatcatt aggggattca tcagagtctt gntccacttt 120  
 gccaatancg ccggccntag cnc tagncgn cgcacgnnca gacgcgtggc ca 172

<210> 51  
 <211> 270  
 <212> DNA  
 <213> Artificial

<220>  
 <223> partial gene with transposon insert

<220>  
 <221> misc\_feature  
 <222> (3)..(3)  
 <223> n is a, c, g, or t

<400> 51  
 cgntaccgga ccgggatcat atgacaagat gtgtatccac cttaacttaa tgatttttac 60  
 caaaatcatt aggggattca tcagtgtctg gctcctttca gcgcgatcaa cagcgattcg 120  
 gaatccactt cctgcaacag acgctgaatg ctgcatcgt cgacatccac cagattctcg 180  
 aacaggaaca tctcgtcgat gattttctgc gccagctcgc cgtcgaattc acgcacggcg 240  
 gtaataacgg cttcttcctg ctgagttttc 270

<210> 52  
 <211> 390  
 <212> DNA  
 <213> Artificial

<220>  
 <223> partial gene with transposon insert

# 42623-0044\_seq listing

<220>  
 <221> misc\_feature  
 <222> (152)..(152)  
 <223> n is a, c, g, or t

<220>  
 <221> misc\_feature  
 <222> (155)..(157)  
 <223> n is a, c, g, or t

<220>  
 <221> misc\_feature  
 <222> (169)..(169)  
 <223> n is a, c, g, or t

<220>  
 <221> misc\_feature  
 <222> (365)..(370)  
 <223> n is a, c, g, or t

<220>  
 <221> misc\_feature  
 <222> (372)..(372)  
 <223> n is a, c, g, or t

<400> 52  
 ggaaaaaacg tccggatccg ggatcatatg acaagatgtg tatcccccta acttaatgat 60  
 ttttaccaaa atcattaggg gattcatcag ggttggggtac cttttgtgtt gggcaaaacc 120  
 atattgcggg aaaacaatat ccagcgccgc cnttnnngcg tcacgcgtna ctttcgccag 180  
 gatagacgcg gcactgattt ccggtacgcg gctatgcct ttcaccacag ccatcgcagg 240  
 catcggtaat ttcgggacgc ggttaccatc aatcaacaca tattccggcg caatatgcag 300  
 cccagcgacg gcacgctgca tcgccagcat ggtcgcatga agaattgttca gctcgtcgat 360  
 atccnnnnnn cncgtactag tcgacgcgtg 390

<210> 53  
 <211> 226  
 <212> DNA  
 <213> Artificial

<220>  
 <223> partial gene with transposon insert

<220>  
 <221> misc\_feature  
 <222> (3)..(3)  
 <223> n is a, c, g, or t

<220>  
 <221> misc\_feature  
 <222> (148)..(148)  
 <223> n is a, c, g, or t

<220>  
 <221> misc\_feature  
 <222> (151)..(151)

## 42623-0044\_seq listing

<223> n is a, c, g, or t

<220>

<221> misc\_feature

<222> (155)..(156)

<223> n is a, c, g, or t

<220>

<221> misc\_feature

<222> (183)..(186)

<223> n is a, c, g, or t

<220>

<221> misc\_feature

<222> (191)..(204)

<223> n is a, c, g, or t

<220>

<221> misc\_feature

<222> (208)..(212)

<223> n is a, c, g, or t

<220>

<221> misc\_feature

<222> (214)..(214)

<223> n is a, c, g, or t

<220>

<221> misc\_feature

<222> (217)..(217)

<223> n is a, c, g, or t

<220>

<221> misc\_feature

<222> (220)..(222)

<223> n is a, c, g, or t

<220>

<221> misc\_feature

<222> (223)..(226)

<223> n is a, c, g, or t

<400> 53

tangaaaaa acgttccgga tccgggatca tatgacaaga tgtgtatcca ccttaactta 60

atgattttta ccaaaatcat taggggatc atcagggttg ggtacccttt gtgttgggca 120

aaacatatt gcgggaaaac aatatccncc ncccnngtac tagtcgacgc gtggccaaat 180

atnnnnnatat nnnnnnnnnn nnnnctannn nncncgnggn nnnnnn 226

<210> 54

<211> 226

<212> DNA

<213> Artificial

<220>

<223> partial gene with transposon insert

<220>

<221> misc\_feature

# 42623-0044\_seq listing

```

<222> (1)..(3)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (5)..(5)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (20)..(20)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (158)..(158)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (160)..(162)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (165)..(166)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (191)..(193)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (195)..(201)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (203)..(205)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (207)..(207)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (210)..(210)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (213)..(213)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (216)..(216)
<223> n is a, c, g, or t

```

# 42623-0044\_seq listing

<220>  
 <221> misc\_feature  
 <222> (220)..(221)  
 <223> n is a, c, g, or t

<220>  
 <221> misc\_feature  
 <222> (225)..(225)  
 <223> n is a, c, g, or t

<400> 54  
 nnnngnaaagc ccgccggacn tcccggatcc gggatcatat gacaagatgt gtatccacct 60  
 taacttaatg atttttacca aaatcattag gggattcatc agagtcgcta gtggaaaagc 120  
 catttcgaaa aatcctggtc ataaagatgc gatatccnqn nccnngtac tagtcgacgc 180  
 gtggccaaaa nnnnnnnnnn nannncnatn ctngcncccn nccanc 226

<210> 55  
 <211> 425  
 <212> DNA  
 <213> Artificial

<220>  
 <223> partial gene with transposon insert

<220>  
 <221> misc\_feature  
 <222> (397)..(397)  
 <223> n is a, c, g, or t

<220>  
 <221> misc\_feature  
 <222> (401)..(401)  
 <223> n is a, c, g, or t

<220>  
 <221> misc\_feature  
 <222> (404)..(404)  
 <223> n is a, c, g, or t

<400> 55  
 cgaccggatc cgggatcata tgacaagatg tgtatccacc ttaacttaat gatttttacc 60  
 aaaatcatta ggggattcat cagcactgaa tctggcatta ggtttactta atcgtatggc 120  
 cccgcaatta tccatttttg ttattggatt tccattaact ctgactgtcg gcatctcttt 180  
 aatggcggca ttaatgccgt taattgcacc tttttgcgaa catttattca gtgaaatttt 240  
 taatttgctg gctgatatta ttagtgaatt gccattaata taattccgta acgtttatca 300  
 tgttatccta aggattatcc gaaaaataat acctacgaac atcttccagg atactcctgc 360  
 agcgaaatat ttgttttaag ctactcaca tatcccnccc ncnngtacta gtcgacgcgt 420  
 ggcca 425

<210> 56

# 42623-0044\_seq listing

<211> 176  
<212> DNA  
<213> Artificial

<220>  
<223> partial gene with transposon insert

<220>  
<221> misc\_feature  
<222> (4)..(4)  
<223> n is a, c, g, or t

<220>  
<221> misc\_feature  
<222> (11)..(11)  
<223> n is a, c, g, or t

<220>  
<221> misc\_feature  
<222> (13)..(13)  
<223> n is a, c, g, or t

<220>  
<221> misc\_feature  
<222> (118)..(119)  
<223> n is a, c, g, or t

<220>  
<221> misc\_feature  
<222> (121)..(122)  
<223> n is a, c, g, or t

<220>  
<221> misc\_feature  
<222> (124)..(125)  
<223> n is a, c, g, or t

<220>  
<221> misc\_feature  
<222> (148)..(148)  
<223> n is a, c, g, or t

<220>  
<221> misc\_feature  
<222> (152)..(156)  
<223> n is a, c, g, or t

<220>  
<221> misc\_feature  
<222> (160)..(161)  
<223> n is a, c, g, or t

<220>  
<221> misc\_feature  
<222> (163)..(168)  
<223> n is a, c, g, or t

<220>  
<221> misc\_feature  
<222> (174)..(176)  
<223> n is a, c, g, or t



# 42623-0044\_seq listing

```
<400> 56
aacnaaacgg ntncggcatc gggatcatat gacaagatgt gtatccacct taacttaatg 60
atatttacca aaatcattag gggattcatc agcgctgcgc atacttatgc catatccnnc 120
nngnnggtac tagtcgacgc gtggccanat tnnnnnatch ncnnnnnngg ggcnnn 176
```

```
<210> 57
<211> 355
<212> DNA
<213> Artificial
```

```
<220>
<223> partial gene with transposon insert
```

```
<220>
<221> misc_feature
<222> (273)..(273)
<223> n is a, c, g, or t
```

```
<220>
<221> misc_feature
<222> (290)..(291)
<223> n is a, c, g, or t
```

```
<220>
<221> misc_feature
<222> (293)..(293)
<223> n is a, c, g, or t
```

```
<220>
<221> misc_feature
<222> (295)..(296)
<223> n is a, c, g, or t
```

```
<220>
<221> misc_feature
<222> (298)..(298)
<223> n is a, c, g, or t
```

```
<220>
<221> misc_feature
<222> (300)..(300)
<223> n is a, c, g, or t
```

```
<220>
<221> misc_feature
<222> (307)..(307)
<223> n is a, c, g, or t
```

```
<220>
<221> misc_feature
<222> (310)..(310)
<223> n is a, c, g, or t
```

```
<220>
<221> misc_feature
<222> (321)..(321)
<223> n is a, c, g, or t
```

```
<220>
```

# 42623-0044\_seq listing

<221> misc\_feature  
<222> (328)..(328)  
<223> n is a, c, g, or t

<220>  
<221> misc\_feature  
<222> (330)..(332)  
<223> n is a, c, g, or t

<220>  
<221> misc\_feature  
<222> (339)..(339)  
<223> n is a, c, g, or t

<220>  
<221> misc\_feature  
<222> (341)..(342)  
<223> n is a, c, g, or t

<220>  
<221> misc\_feature  
<222> (349)..(349)  
<223> n is a, c, g, or t

<400> 57  
aaacgaccgg accgggatca tatgacaaga tgtgtatcca ccttaactta atgattttta 60  
ccaaaatcat taggggattc atcagggggc aagttgcttt tgggcgtctc gtagcctttc 120  
ccggctaaag attgagcttg ctttgcgaca tcatcaatac tgaaagccca gcttgaagat 180  
gtatacaggg ttaacattac tgcagcactc aaccaacgca ttttcattat ttgtagctta 240  
tgtttcataa ttagtaaggc acttccccct ttngtgtgct tatatccctn ngntnncntn 300  
ctagtcnacn cgtggccact nctatccngn nntccccgnt nngcagtant cagac 355

<210> 58  
<211> 380  
<212> DNA  
<213> Artificial

<220>  
<223> partial gene with transposon insert

<400> 58  
gatcatatga caagatgtgt atccacctta acttaatgat ttttaccaa atcattaggg 60  
gattcatcag ggctgcgcc ctttttccag cgctcctgc attgatattt tctcttcgct 120  
gaatggctgg tacgcatcta cataaatttt gtcgatacc ggtgacataa taaaaaagg 180  
caaaaacagt gccagcccca gcaatacctg gttaggtggc gcggagggtg ttcccagcgc 240  
gttacgcaat aaacaaaaa caatgatgat gcgggtgaaa ctggatcatca tcagtaaaat 300  
tgccggaata aacgtcaacg aggtgatgaa caccagcgtc tgcaccggga gcgaccagct 360  
ttgtccaccg ccaggcagcg 380

<210> 59

# 42623-0044\_seq listing

<211> 449  
<212> DNA  
<213> Artificial

<220>  
<223> partial gene with transposon insert

<220>  
<221> misc\_feature  
<222> (1)..(1)  
<223> n is a, c, g, or t

<220>  
<221> misc\_feature  
<222> (7)..(7)  
<223> n is a, c, g, or t

<400> 59	
natacgnccg gatccgggat catatgacaa gatgtgtatc cccttaactt aatgattttt	60
acaaaaatca ttagggggatt catcaggggtg caacctgtat cacacccgat gaaagattaa	120
ttagtcaaga ttatgatatc tttttaacgg ataatccgtc taatcttact gcctctggct	180
tgcttttaag cgatgatgag tctggcgtac gggaaattgg gcctgggtcaa ttgtgcgta	240
acttcaatat gagcaacgct atgcaggaag cggctttaca attaattgaa gtgcaactgg	300
cgcaggaaga ggtgacagaa tcgcctctgg gcggagatga aaatgcgcaa ctccatgcca	360
gcggctatta tgcgctcttt gtagacacag taccggatga tgtaagagg ctgtatactg	420
aagcagcaac cagtgacttt gctgcgtta	449

<210> 60  
<211> 450  
<212> DNA  
<213> Artificial

<220>  
<223> partial gene with transposon insert

<220>  
<221> misc\_feature  
<222> (2)..(5)  
<223> n is a, c, g, or t

<220>  
<221> misc\_feature  
<222> (62)..(62)  
<223> n is a, c, g, or t

<220>  
<221> misc\_feature  
<222> (78)..(78)  
<223> n is a, c, g, or t

<220>  
<221> misc\_feature  
<222> (86)..(86)

42623-0044\_seq listing

```

<223>  n is a, c, g, or t
<220>
<221>  misc_feature
<222>  (96)..(96)
<223>  n is a, c, g, or t

<220>
<221>  misc_feature
<222>  (98)..(98)
<223>  n is a, c, g, or t

<220>
<221>  misc_feature
<222>  (110)..(110)
<223>  n is a, c, g, or t

<220>
<221>  misc_feature
<222>  (125)..(125)
<223>  n is a, c, g, or t

<220>
<221>  misc_feature
<222>  (132)..(132)
<223>  n is a, c, g, or t

<220>
<221>  misc_feature
<222>  (141)..(141)
<223>  n is a, c, g, or t

<220>
<221>  misc_feature
<222>  (157)..(157)
<223>  n is a, c, g, or t

<220>
<221>  misc_feature
<222>  (159)..(159)
<223>  n is a, c, g, or t

<220>
<221>  misc_feature
<222>  (173)..(173)
<223>  n is a, c, g, or t

<220>
<221>  misc_feature
<222>  (182)..(182)
<223>  n is a, c, g, or t

<220>
<221>  misc_feature
<222>  (194)..(194)
<223>  n is a, c, g, or t

<220>
<221>  misc_feature
<222>  (212)..(212)
<223>  n is a, c, g, or t

<220>

```

# 42623-0044\_seq listing

<221> misc\_feature  
<222> (222)..(222)  
<223> n is a, c, g, or t

<220>  
<221> misc\_feature  
<222> (228)..(229)  
<223> n is a, c, g, or t

<220>  
<221> misc\_feature  
<222> (232)..(232)  
<223> n is a, c, g, or t

<220>  
<221> misc\_feature  
<222> (235)..(235)  
<223> n is a, c, g, or t

<220>  
<221> misc\_feature  
<222> (239)..(239)  
<223> n is a, c, g, or t

<220>  
<221> misc\_feature  
<222> (246)..(246)  
<223> n is a, c, g, or t

<220>  
<221> misc\_feature  
<222> (248)..(248)  
<223> n is a, c, g, or t

<220>  
<221> misc\_feature  
<222> (251)..(251)  
<223> n is a, c, g, or t

<220>  
<221> misc\_feature  
<222> (254)..(255)  
<223> n is a, c, g, or t

<220>  
<221> misc\_feature  
<222> (262)..(262)  
<223> n is a, c, g, or t

<220>  
<221> misc\_feature  
<222> (266)..(267)  
<223> n is a, c, g, or t

<220>  
<221> misc\_feature  
<222> (272)..(272)  
<223> n is a, c, g, or t

<220>  
<221> misc\_feature  
<222> (276)..(276)  
<223> n is a, c, g, or t

# 42623-0044\_seq listing

<220>  
 <221> misc\_feature  
 <222> (279)..(280)  
 <223> n is a, c, g, or t

<220>  
 <221> misc\_feature  
 <222> (283)..(283)  
 <223> n is a, c, g, or t

<220>  
 <221> misc\_feature  
 <222> (285)..(286)  
 <223> n is a, c, g, or t

<220>  
 <221> misc\_feature  
 <222> (288)..(288)  
 <223> n is a, c, g, or t

<220>  
 <221> misc\_feature  
 <222> (290)..(290)  
 <223> n is a, c, g, or t

<220>  
 <221> misc\_feature  
 <222> (293)..(293)  
 <223> n is a, c, g, or t

<220>  
 <221> misc\_feature  
 <222> (295)..(295)  
 <223> n is a, c, g, or t

<220>  
 <221> misc\_feature  
 <222> (298)..(298)  
 <223> n is a, c, g, or t

<220>  
 <221> misc\_feature  
 <222> (301)..(303)  
 <223> n is a, c, g, or t

<220>  
 <221> misc\_feature  
 <222> (305)..(305)  
 <223> n is a, c, g, or t

<220>  
 <221> misc\_feature  
 <222> (307)..(308)  
 <223> n is a, c, g, or t

<220>  
 <221> misc\_feature  
 <222> (310)..(310)  
 <223> n is a, c, g, or t

<220>  
 <221> misc\_feature

## 42623-0044\_seq listing

<222> (313)..(313)  
<223> n is a, c, g, or t

<220>  
<221> misc\_feature  
<222> (321)..(321)  
<223> n is a, c, g, or t

<220>  
<221> misc\_feature  
<222> (323)..(326)  
<223> n is a, c, g, or t

<220>  
<221> misc\_feature  
<222> (332)..(332)  
<223> n is a, c, g, or t

<220>  
<221> misc\_feature  
<222> (334)..(336)  
<223> n is a, c, g, or t

<220>  
<221> misc\_feature  
<222> (338)..(339)  
<223> n is a, c, g, or t

<220>  
<221> misc\_feature  
<222> (341)..(347)  
<223> n is a, c, g, or t

<220>  
<221> misc\_feature  
<222> (349)..(349)  
<223> n is a, c, g, or t

<220>  
<221> misc\_feature  
<222> (352)..(353)  
<223> n is a, c, g, or t

<220>  
<221> misc\_feature  
<222> (357)..(358)  
<223> n is a, c, g, or t

<220>  
<221> misc\_feature  
<222> (364)..(364)  
<223> n is a, c, g, or t

<220>  
<221> misc\_feature  
<222> (366)..(366)  
<223> n is a, c, g, or t

<220>  
<221> misc\_feature  
<222> (369)..(370)  
<223> n is a, c, g, or t

42623-0044\_seq listing

```

<220>
<221> misc_feature
<222> (372)..(373)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (375)..(377)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (379)..(379)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (382)..(382)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (384)..(384)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (386)..(386)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (390)..(390)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (394)..(394)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (399)..(399)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (405)..(405)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (410)..(411)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (413)..(413)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (418)..(418)

```



# 42623-0044\_seq listing

<223> n is a, c, g, or t

<220>

<221> misc\_feature

<222> (423)..(423)

<223> n is a, c, g, or t

<220>

<221> misc\_feature

<222> (429)..(429)

<223> n is a, c, g, or t

<220>

<221> misc\_feature

<222> (434)..(434)

<223> n is a, c, g, or t

<220>

<221> misc\_feature

<222> (437)..(440)

<223> n is a, c, g, or t

<220>

<221> misc\_feature

<222> (444)..(444)

<223> n is a, c, g, or t

<220>

<221> misc\_feature

<222> (446)..(446)

<223> n is a, c, g, or t

<220>

<221> misc\_feature

<222> (449)..(450)

<223> n is a, c, g, or t

<400> 60

annnncgatc cgggatcata tgacaagatg tgtatccacc ttaacttaat gattttttacc 60

anaatcatta ggggattnat cagctnaatg catgcncnac cattgcctcn gctgtttgca 120

accgngtaag gngcattcat ntgcataatg tgctgcnanc aatctggctg agnagacaag 180

cncactccca tganacgcat cgcgcattat tntacgtgaa ancggaatna anggntggnt 240

aaacnanga nccnncgccg antatnnttc cncctgncann ctnanntngn ctngnacnga 300

nnncnanncn acncctcttt nttnnnnttcc gntnnngnng nnnnnntng tntccnnc 360

tgtntncann tnnnnngnt cntncnccn tctntccant gccanttgtn ncnaggtncg 420

atntctgcng accnacnnnn tagnanccnn 450

<210> 61

<211> 212

<212> DNA

<213> Artificial

<220>

<223> partial gene with transposon insert

# 42623-0044\_seq listing

<220>  
 <221> misc\_feature  
 <222> (2)..(2)  
 <223> n is a, c, g, or t

<220>  
 <221> misc\_feature  
 <222> (6)..(6)  
 <223> n is a, c, g, or t

<220>  
 <221> misc\_feature  
 <222> (206)..(212)  
 <223> n is a, c, g, or t

<400> 61	
gnaaancccg ccggacatcc cggatccggg atcatatgac aagatgtgta tccaccttaa	60
cttaatggat ttttaccaa atcattaggg gattcatcag gcggtagcgt gcttttttct	120
gcttaactta accagacaat cacacaaaag agtcgctagt ggaaaagcca tttcgaaaaa	180
tcctggtcat aaagatgcga tatccnnnnn nn	212

<210> 62  
 <211> 333  
 <212> DNA  
 <213> Artificial

<220>  
 <223> partial gene with transposon insert

<220>  
 <221> misc\_feature  
 <222> (7)..(7)  
 <223> n is a, c, g, or t

<220>  
 <221> misc\_feature  
 <222> (19)..(19)  
 <223> n is a, c, g, or t

<220>  
 <221> misc\_feature  
 <222> (24)..(24)  
 <223> n is a, c, g, or t

<220>  
 <221> misc\_feature  
 <222> (32)..(32)  
 <223> n is a, c, g, or t

<220>  
 <221> misc\_feature  
 <222> (38)..(38)  
 <223> n is a, c, g, or t

<220>  
 <221> misc\_feature  
 <222> (55)..(55)

# 42623-0044\_seq listing

```

<223> n is a, c, g, or t
<220>
<221> misc_feature
<222> (65)..(65)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (89)..(89)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (131)..(131)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (138)..(138)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (141)..(141)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (165)..(165)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (167)..(167)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (186)..(186)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (195)..(195)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (199)..(199)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (201)..(202)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (204)..(205)
<223> n is a, c, g, or t

<220>

```

# 42623-0044\_seq listing

<221> misc\_feature  
<222> (208)..(208)  
<223> n is a, c, g, or t

<220>  
<221> misc\_feature  
<222> (214)..(214)  
<223> n is a, c, g, or t

<220>  
<221> misc\_feature  
<222> (225)..(225)  
<223> n is a, c, g, or t

<220>  
<221> misc\_feature  
<222> (227)..(227)  
<223> n is a, c, g, or t

<220>  
<221> misc\_feature  
<222> (233)..(234)  
<223> n is a, c, g, or t

<220>  
<221> misc\_feature  
<222> (239)..(239)  
<223> n is a, c, g, or t

<220>  
<221> misc\_feature  
<222> (252)..(252)  
<223> n is a, c, g, or t

<220>  
<221> misc\_feature  
<222> (257)..(257)  
<223> n is a, c, g, or t

<220>  
<221> misc\_feature  
<222> (260)..(261)  
<223> n is a, c, g, or t

<220>  
<221> misc\_feature  
<222> (265)..(265)  
<223> n is a, c, g, or t

<220>  
<221> misc\_feature  
<222> (269)..(270)  
<223> n is a, c, g, or t

<220>  
<221> misc\_feature  
<222> (275)..(275)  
<223> n is a, c, g, or t

<220>  
<221> misc\_feature  
<222> (277)..(279)  
<223> n is a, c, g, or t

# 42623-0044\_seq listing

<220>  
 <221> misc\_feature  
 <222> (281)..(281)  
 <223> n is a, c, g, or t

<220>  
 <221> misc\_feature  
 <222> (286)..(286)  
 <223> n is a, c, g, or t

<220>  
 <221> misc\_feature  
 <222> (288)..(288)  
 <223> n is a, c, g, or t

<220>  
 <221> misc\_feature  
 <222> (290)..(290)  
 <223> n is a, c, g, or t

<220>  
 <221> misc\_feature  
 <222> (293)..(293)  
 <223> n is a, c, g, or t

<220>  
 <221> misc\_feature  
 <222> (295)..(295)  
 <223> n is a, c, g, or t

<220>  
 <221> misc\_feature  
 <222> (298)..(298)  
 <223> n is a, c, g, or t

<220>  
 <221> misc\_feature  
 <222> (300)..(300)  
 <223> n is a, c, g, or t

<220>  
 <221> misc\_feature  
 <222> (305)..(305)  
 <223> n is a, c, g, or t

<220>  
 <221> misc\_feature  
 <222> (318)..(319)  
 <223> n is a, c, g, or t

<220>  
 <221> misc\_feature  
 <222> (321)..(321)  
 <223> n is a, c, g, or t

<220>  
 <221> misc\_feature  
 <222> (324)..(324)  
 <223> n is a, c, g, or t

<220>  
 <221> misc\_feature

# 42623-0044\_seq listing

<222> (326)..(326)  
<223> n is a, c, g, or t

<220>  
<221> misc\_feature  
<222> (329)..(329)  
<223> n is a, c, g, or t

<220>  
<221> misc\_feature  
<222> (331)..(332)  
<223> n is a, c, g, or t

<400> 62	
aacgctnccg atccggatna tatnaacaga tntgtatnca ccttatctta atganatttt	60
accanaatca tattgggggat atcatatang ggctgcccc tttttccagc ccctactgca	120
ttgatatttt ntcttcgntg natggctggt acgcatctac ataantnttg acgatcaccg	180
gtgacntaat aaaanaggnc nnanncantg ccantcccag caatncntgg ttnggtggng	240
cggacggtgc tnccatngcn ngacncacnn aaccnannnc natgangntn ccncnganan	300
tgganatcat cctgcaannc nacngnatnc nna	333

<210> 63  
<211> 284  
<212> DNA  
<213> Artificial

<220>  
<223> partial gene with transposon insert

<220>  
<221> misc\_feature  
<222> (3)..(3)  
<223> n is a, c, g, or t

<220>  
<221> misc\_feature  
<222> (88)..(88)  
<223> n is a, c, g, or t

<220>  
<221> misc\_feature  
<222> (90)..(90)  
<223> n is a, c, g, or t

<220>  
<221> misc\_feature  
<222> (90)..(90)  
<223> n is a, c, g, or t

<220>  
<221> misc\_feature  
<222> (108)..(108)  
<223> n is a, c, g, or t

<220>  
<221> misc\_feature

42623-0044\_seq listing

```

<222> (118)..(118)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (179)..(180)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (182)..(182)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (184)..(184)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (187)..(188)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (215)..(219)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (222)..(222)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (227)..(228)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (230)..(230)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (236)..(237)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (239)..(240)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (242)..(243)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (245)..(245)
<223> n is a, c, g, or t

```

# 42623-0044\_seq listing

<220>  
 <221> misc\_feature  
 <222> (253)..(253)  
 <223> n is a, c, g, or t

<220>  
 <221> misc\_feature  
 <222> (256)..(256)  
 <223> n is a, c, g, or t

<220>  
 <221> misc\_feature  
 <222> (258)..(260)  
 <223> n is a, c, g, or t

<220>  
 <221> misc\_feature  
 <222> (265)..(267)  
 <223> n is a, c, g, or t

<220>  
 <221> misc\_feature  
 <222> (269)..(272)  
 <223> n is a, c, g, or t

<220>  
 <221> misc\_feature  
 <222> (274)..(274)  
 <223> n is a, c, g, or t

<220>  
 <221> misc\_feature  
 <222> (277)..(277)  
 <223> n is a, c, g, or t

<220>  
 <221> misc\_feature  
 <222> (284)..(284)  
 <223> n is a, c, g, or t

<400> 63  
 cgncggatc cgggatcata tgacaagatg tgtatccacc ttaacttaat gatTTTTacc 60  
 aaaatcatta ggggattcat cagcgatnan ctgcaataag cagaaccncc tttttggntt 120  
 aatatgtcct tacaaataga aatgggtcct tacacttatc taagattttt cctatatacnn 180  
 cncnccnngt actagtcgac gcgtggccat ttatnnnnna tntcctnntn gtctcnngnn 240  
 cnnncgcgg ccncancnnn atatnnntnn nncnctncac tctn 284

<210> 64  
 <211> 420  
 <212> DNA  
 <213> Artificial

<220>  
 <223> partial gene with transposon insert

<220>  
 <221> misc\_feature



# 42623-0044\_seq listing

<222> (381)..(382)  
<223> n is a, c, g, or t

<220>  
<221> misc\_feature  
<222> (384)..(387)  
<223> n is a, c, g, or t

<220>  
<221> misc\_feature  
<222> (412)..(412)  
<223> n is a, c, g, or t

<220>  
<221> misc\_feature  
<222> (414)..(415)  
<223> n is a, c, g, or t

<220>  
<221> misc\_feature  
<222> (418)..(418)  
<223> n is a, c, g, or t

<400> 64	
aacccgatcc gggatcatat gacaagatgt gtatccacct taacttaatg atttttacca	60
aatcattag gggattcatc agggctgggt tggcaatggg gtctacgttt ctggtgtgca	120
gcgtgagtat gatgcgttta ttaccaacca gttacgtgcg gcgcagacgc aaagtagcgg	180
tctgactgcc cgctatgagc agatgtcgaa aatcgacaat atgctctcca ccagtacctc	240
ttcgttgga acacagatgc aggatttctt caccagcctg caaacgctgg tgagtaacgc	300
ggaagacccg gcagcgcgcc aggcgctgat tgggaaatca gaaggattgg tgaatcagtt	360
taaaaccacc gatcaatatc nncnnnnccc gtactagtcg acgcgtggcc anannatnct	420

<210> 65  
<211> 283  
<212> DNA  
<213> Artificial

<220>  
<223> partial gene with transposon insert

<220>  
<221> misc\_feature  
<222> (6)..(6)  
<223> n is a, c, g, or t

<220>  
<221> misc\_feature  
<222> (14)..(14)  
<223> n is a, c, g, or t

<220>  
<221> misc\_feature  
<222> (160)..(160)  
<223> n is a, c, g, or t

# 42623-0044\_seq listing

<220>  
 <221> misc\_feature  
 <222> (170)..(170)  
 <223> n is a, c, g, or t

<220>  
 <221> misc\_feature  
 <222> (233)..(233)  
 <223> n is a, c, g, or t

<220>  
 <221> misc\_feature  
 <222> (235)..(236)  
 <223> n is a, c, g, or t

<220>  
 <221> misc\_feature  
 <222> (239)..(239)  
 <223> n is a, c, g, or t

<220>  
 <221> misc\_feature  
 <222> (241)..(241)  
 <223> n is a, c, g, or t

<220>  
 <221> misc\_feature  
 <222> (267)..(268)  
 <223> n is a, c, g, or t

<220>  
 <221> misc\_feature  
 <222> (270)..(270)  
 <223> n is a, c, g, or t

<220>  
 <221> misc\_feature  
 <222> (272)..(272)  
 <223> n is a, c, g, or t

<220>  
 <221> misc\_feature  
 <222> (274)..(274)  
 <223> n is a, c, g, or t

<220>  
 <221> misc\_feature  
 <222> (283)..(283)  
 <223> n is a, c, g, or t

<400> 65	
ataccngatc cggntcatat gacaagatgt gtatcccctt aacttaatga tttttaccaa	60
aatcattagg ggattcatca ggcttacgcc tgcttttgcg ttgttgatgg catcacggat	120
cccgcctaac gatgagtttag ccgcgctgat atcaatggtn atcgtactan tcgacgcgtg	180
gccatgaatg gtgagtttac tgtcgctggt ggcgatcgcc gttttcatat cgncnnttnc	240
ngtactagtc gacgcgtggc caaattntn tnanaaaaat tcn	283

<210> 66

# 42623-0044\_seq listing

<211> 334  
 <212> DNA  
 <213> Artificial  
 <220>  
 <223> partial gene with transposon insert  
 <400> 66  
 aacggttacc ggatccgga tcatatgaca agatgtgtat ccaccttaac ttaatgattt 60  
 ttaccaaagt cattagggga ttcatcagcg cgcgatatcg attttgccag tgaacttaaa 120  
 aaagtcatgc aacgtggacg ggatgcaacc agtgtggttg cactgacgat gacctcaacg 180  
 caacacattc cggcgcaggc gctgacgcct cctaccgcag aactgcaata ccgtattccg 240  
 gaccagcctt cgcttgacgg taataccgct gatatggatc gcgaacgcac ccagtttgcc 300  
 gataacagcc tgcaatacca gatgagcctt agcg 334

<210> 67  
 <211> 272  
 <212> DNA  
 <213> Artificial  
 <220>  
 <223> partial gene with transposon insert

<220>  
 <221> misc\_feature  
 <222> (3)..(3)  
 <223> n is a, c, g, or t

<400> 67  
 cgntaccgga tccgggatca tatgacaaga tgtgtatcca ccttaactta atgattttta 60  
 ccaaaatcat taggggattc atcagcacga cgcgttgctg cgctttgtcg tcagcggcaa 120  
 cctgatgcga atgccagtag ctgtaacctg cgctggcaca ggccgcgagg gtaatgaata 180  
 ccagaatcgg gatccaaagc gatcgcttgc ttttcttgct tatcgcgtaa tcagtcatgt 240  
 gttgcggtct tcctgtgtcg ctactgctta tc 272

<210> 68  
 <211> 394  
 <212> DNA  
 <213> Artificial  
 <220>  
 <223> partial gene with transposon insert

<220>  
 <221> misc\_feature  
 <222> (242)..(242)  
 <223> n is a, c, g, or t

<220>  
 <221> misc\_feature

# 42623-0044\_seq listing

```

<222> (253)..(253)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (272)..(272)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (286)..(286)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (288)..(288)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (302)..(302)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (316)..(316)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (318)..(319)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (331)..(331)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (334)..(334)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (342)..(342)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (352)..(352)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (357)..(357)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (359)..(359)
<223> n is a, c, g, or t

```

# 42623-0044\_seq listing

<220>  
 <221> misc\_feature  
 <222> (364)..(365)  
 <223> n is a, c, g, or t

<220>  
 <221> misc\_feature  
 <222> (368)..(368)  
 <223> n is a, c, g, or t

<220>  
 <221> misc\_feature  
 <222> (374)..(375)  
 <223> n is a, c, g, or t

<220>  
 <221> misc\_feature  
 <222> (377)..(378)  
 <223> n is a, c, g, or t

<220>  
 <221> misc\_feature  
 <222> (382)..(382)  
 <223> n is a, c, g, or t

<400> 68	
aaacgaccgg atccgggatc atatgacaag atgtgtatcc accttaactt aatgattttt	60
accaaataca ttaggggatt catcagcgct aagtgtgtga agcttttttt ccaaatacca	120
tgctgccgat gaccataaag ttgcgatatt ttcattccgtg caggtaaaca acgtaccagc	180
agcgccacca tccactgatc cgtaagatta atgaccaggt cataattatt cgcacgcaga	240
gnttttatca acnaaagcac atttttaatt tnatcgaaag ttcccnccnc tttattgctt	300
ancccataga gcgcantnnt ttccgggttt ncanacaaaa tntggatggg gncctgncna	360
agcnncangt ctanntnngc tntatgagaa tctg	394

<210> 69  
 <211> 392  
 <212> DNA  
 <213> Artificial

<220>  
 <223> partial gene with transposon insert

<220>  
 <221> misc\_feature  
 <222> (152)..(152)  
 <223> n is a, c, g, or t

<220>  
 <221> misc\_feature  
 <222> (157)..(157)  
 <223> n is a, c, g, or t

<220>  
 <221> misc\_feature  
 <222> (159)..(159)

## 42623-0044\_seq listing

<223> n is a, c, g, or t

<220>

<221> misc\_feature

<222> (164)..(164)

<223> n is a, c, g, or t

<220>

<221> misc\_feature

<222> (170)..(170)

<223> n is a, c, g, or t

<220>

<221> misc\_feature

<222> (199)..(199)

<223> n is a, c, g, or t

<220>

<221> misc\_feature

<222> (214)..(214)

<223> n is a, c, g, or t

<220>

<221> misc\_feature

<222> (231)..(231)

<223> n is a, c, g, or t

<220>

<221> misc\_feature

<222> (242)..(242)

<223> n is a, c, g, or t

<220>

<221> misc\_feature

<222> (244)..(244)

<223> n is a, c, g, or t

<220>

<221> misc\_feature

<222> (259)..(259)

<223> n is a, c, g, or t

<220>

<221> misc\_feature

<222> (266)..(266)

<223> n is a, c, g, or t

<220>

<221> misc\_feature

<222> (271)..(271)

<223> n is a, c, g, or t

<220>

<221> misc\_feature

<222> (277)..(277)

<223> n is a, c, g, or t

<220>

<221> misc\_feature

<222> (287)..(288)

<223> n is a, c, g, or t

<220>

## 42623-0044\_seq listing

<221> misc\_feature  
<222> (294)..(294)  
<223> n is a, c, g, or t

<220>  
<221> misc\_feature  
<222> (302)..(302)  
<223> n is a, c, g, or t

<220>  
<221> misc\_feature  
<222> (307)..(308)  
<223> n is a, c, g, or t

<220>  
<221> misc\_feature  
<222> (321)..(321)  
<223> n is a, c, g, or t

<220>  
<221> misc\_feature  
<222> (324)..(324)  
<223> n is a, c, g, or t

<220>  
<221> misc\_feature  
<222> (326)..(326)  
<223> n is a, c, g, or t

<220>  
<221> misc\_feature  
<222> (334)..(335)  
<223> n is a, c, g, or t

<220>  
<221> misc\_feature  
<222> (340)..(340)  
<223> n is a, c, g, or t

<220>  
<221> misc\_feature  
<222> (344)..(344)  
<223> n is a, c, g, or t

<220>  
<221> misc\_feature  
<222> (346)..(347)  
<223> n is a, c, g, or t

<220>  
<221> misc\_feature  
<222> (351)..(353)  
<223> n is a, c, g, or t

<220>  
<221> misc\_feature  
<222> (358)..(358)  
<223> n is a, c, g, or t

<220>  
<221> misc\_feature  
<222> (360)..(360)  
<223> n is a, c, g, or t

# 42623-0044\_seq listing

<220>  
 <221> misc\_feature  
 <222> (364)..(364)  
 <223> n is a, c, g, or t

<220>  
 <221> misc\_feature  
 <222> (371)..(371)  
 <223> n is a, c, g, or t

<220>  
 <221> misc\_feature  
 <222> (375)..(376)  
 <223> n is a, c, g, or t

<220>  
 <221> misc\_feature  
 <222> (378)..(379)  
 <223> n is a, c, g, or t

<220>  
 <221> misc\_feature  
 <222> (387)..(387)  
 <223> n is a, c, g, or t

<220>  
 <221> misc\_feature  
 <222> (392)..(392)  
 <223> n is a, c, g, or t

<400> 69	
aaacgaccgg atccgggatc atatgacaag atgtgtatcc accttaactt aatgattttt	60
accaaaatca ttaggggatt catcagagtt ttacccgttt cggtagctg cgttcgctca	120
gaatcggcgc ggtggagatc atcgccagct cncgcantna cggncagaan tacaggttta	180
accaggatag ccattgttng cttgccacct gcancatagt acggttacc natgatttac	240
tngnaggtta gtgaacaang tgcggncagt nattcancaa cacattnngc atgntctgtc	300
tnggcannta ttttggatg naananggcc gatnttttn cgantnnccg nnntgggntn	360
ctntttcatc nagtnncna tgggcgngta tn	392

<210> 70  
 <211> 482  
 <212> DNA  
 <213> Artificial

<220>  
 <223> partial gene with transposon insert

<220>  
 <221> misc\_feature  
 <222> (5)..(5)  
 <223> n is a, c, g, or t

<400> 70	
tacgnccgat ccgggatcat atgacaagat gtgtatccac cttaacttaa tgatttttac	60



# 42623-0044\_seq listing

caaaatcatt aggggattca tcagggtgc gccccttttt ccagcgctc ctgcattgat	120
attttctctt cgctgaatgg ctggtacgca tctacataaa ttttgtcgat caccggtgac	180
ataataaaaa aggtcaaaaa cagtgccagc cccagcaata cctggttagg tggcgcgagg	240
ggtgttccca gcgcgttacg caataaacca aaaacaatga tgatgcgggt gaaactggtc	300
atcatcagta aaattgccgg aataaacgtc aacgagggtga tgaacaccag cgtctgcacc	360
gggagcgacc agctttgtcc accgccaggc agcggctggc tggtgatacc cggcagttgc	420
gcgaaggcga ggggcgtaat cagccagaga aggacaggtg cgacagacaa taaacgacgc	480
at	482

<210> 71  
 <211> 225  
 <212> DNA  
 <213> Artificial

<220>  
 <223> partial gene with transposon insert

<220>  
 <221> misc\_feature  
 <222> (2)..(2)  
 <223> n is a, c, g, or t

<220>  
 <221> misc\_feature  
 <222> (4)..(4)  
 <223> n is a, c, g, or t

<220>  
 <221> misc\_feature  
 <222> (13)..(13)  
 <223> n is a, c, g, or t

<220>  
 <221> misc\_feature  
 <222> (134)..(134)  
 <223> n is a, c, g, or t

<220>  
 <221> misc\_feature  
 <222> (195)..(196)  
 <223> n is a, c, g, or t

<220>  
 <221> misc\_feature  
 <222> (198)..(201)  
 <223> n is a, c, g, or t

<220>  
 <221> misc\_feature  
 <222> (203)..(204)  
 <223> n is a, c, g, or t

<400> 71

42623-0044\_seq listing

gnghnaaaac gtnccggatc cgggatcata tgacaagatg tgtatccacc ttaacttaat	60
gattttttacc aaaatcatta ggggattcat caggatggtg tcctgataaa gcagcatatc	120
gattttttgca tcangataat tctgcttgag cgtactgatg acaggagtag ttaataacat	180
atcccatga tatcnnnnnn ncnngtacta gtcgacgcgt ggcca	225

<210> 72  
 <211> 350  
 <212> DNA  
 <213> Artificial

<220>  
 <223> partial gene with transposon insert

<220>  
 <221> misc\_feature  
 <222> (3)..(3)  
 <223> n is a, c, g, or t

<400> 72 cgnccggatc cgggatcata tgacaagatg tgtatcccct taacttaatg atttttacca	60
aaatcattag gggattcatc agcctggtgc ctggaatgcc gaacctggtg tttttgctgt	120
tcactgccgg attgctcggg ctggcctggt ggatacgcg acgcaacaa aaagcgctg	180
ccgaacccaa accggtaaaa atggcagaga ataataccgt tgtcgaagcg acgtggaacg	240
atgtacaact ggaagattct ctgggaatgg aagtgggtta tggactgatc ccgatggctg	300
atttccagca ggatggtgag ttgttgggcc gtatacgcag tatccgcaag	350

<210> 73  
 <211> 380  
 <212> DNA  
 <213> Artificial

<220>  
 <223> partial gene with transposon insert

<220>  
 <221> misc\_feature  
 <222> (5)..(5)  
 <223> n is a, c, g, or t

<220>  
 <221> misc\_feature  
 <222> (380)..(380)  
 <223> n is a, c, g, or t

<400> 73 acgtnccgga tccgggatca tatgacaaga tgtgtatcca ctttaactta atgattttta	60
ccaaaatcat taggggattc atcagcctgg tgcctggaat gcccgaaact ggtatttttg	120
ctgttcactg ccggattgct cgggctggcc tgggtgatac gcggacgcga acaaaaagcg	180

# 42623-0044\_seq listing

```

cctgccgaac ccaaaccggt aaaaatggca gagaataata ccgttgtcga agcgacgtgg      240
aacgatgtac aactggaaga ttctctggga atggaagtgg gttatcgact gatcccgatg      300
gtcgatttcc agcaggatgg tgagttgttg ggccgtatac gcagtatccg caagaaattt      360
gcccaggaga tgggatatcn                                          380

```

```

<210> 74
<211> 287
<212> DNA
<213> Artificial

```

```

<220>
<223> partial gene with transposon insert

```

```

<220>
<221> misc_feature
<222> (1)..(1)
<223> n is a, c, g, or t

```

```

<220>
<221> misc_feature
<222> (3)..(5)
<223> n is a, c, g, or t

```

```

<220>
<221> misc_feature
<222> (165)..(165)
<223> n is a, c, g, or t

```

```

<220>
<221> misc_feature
<222> (168)..(168)
<223> n is a, c, g, or t

```

```

<220>
<221> misc_feature
<222> (171)..(171)
<223> n is a, c, g, or t

```

```

<220>
<221> misc_feature
<222> (196)..(203)
<223> n is a, c, g, or t

```

```

<220>
<221> misc_feature
<222> (205)..(206)
<223> n is a, c, g, or t

```

```

<220>
<221> misc_feature
<222> (208)..(209)
<223> n is a, c, g, or t

```

```

<220>
<221> misc_feature
<222> (215)..(216)
<223> n is a, c, g, or t

```

# 42623-0044\_seq listing

<220>  
 <221> misc\_feature  
 <222> (222)..(223)  
 <223> n is a, c, g, or t

<220>  
 <221> misc\_feature  
 <222> (225)..(225)  
 <223> n is a, c, g, or t

<220>  
 <221> misc\_feature  
 <222> (229)..(229)  
 <223> n is a, c, g, or t

<220>  
 <221> misc\_feature  
 <222> (231)..(231)  
 <223> n is a, c, g, or t

<220>  
 <221> misc\_feature  
 <222> (234)..(234)  
 <223> n is a, c, g, or t

<220>  
 <221> misc\_feature  
 <222> (236)..(236)  
 <223> n is a, c, g, or t

<220>  
 <221> misc\_feature  
 <222> (238)..(238)  
 <223> n is a, c, g, or t

<220>  
 <221> misc\_feature  
 <222> (244)..(244)  
 <223> n is a, c, g, or t

<220>  
 <221> misc\_feature  
 <222> (248)..(249)  
 <223> n is a, c, g, or t

<220>  
 <221> misc\_feature  
 <222> (251)..(251)  
 <223> n is a, c, g, or t

<220>  
 <221> misc\_feature  
 <222> (253)..(253)  
 <223> n is a, c, g, or t

<220>  
 <221> misc\_feature  
 <222> (255)..(256)  
 <223> n is a, c, g, or t

<220>  
 <221> misc\_feature  
 <222> (258)..(258)

# 42623-0044\_seq listing

<223> n is a, c, g, or t

<220>

<221> misc\_feature

<222> (261)..(261)

<223> n is a, c, g, or t

<220>

<221> misc\_feature

<222> (263)..(263)

<223> n is a, c, g, or t

<220>

<221> misc\_feature

<222> (268)..(268)

<223> n is a, c, g, or t

<220>

<221> misc\_feature

<222> (270)..(270)

<223> n is a, c, g, or t

<220>

<221> misc\_feature

<222> (275)..(276)

<223> n is a, c, g, or t

<220>

<221> misc\_feature

<222> (280)..(280)

<223> n is a, c, g, or t

<220>

<221> misc\_feature

<222> (285)..(286)

<223> n is a, c, g, or t

<400> 74

ntnnnaaaac acgccggaca tccggatccg ggatcatatg acaagatgtg tatccacctt 60

aacttaatga tttttaccaa aatcattagg ggattcatca gcgctttgcc cgccattttc 120

gtatggggct gttcaacctg ctgcgtcgta gcccggatat atccnccngg ngcgtactag 180

tcgacgcgtg gccaanhhnn nnnchncnc tagcnntaaa anngncatna nccnchnc 240

caancacnna ngnannchtt ncnaaacnan cgtannatan cccchnc 287

<210> 75

<211> 152

<212> DNA

<213> Artificial

<220>

<223> partial gene with transposon insert

<220>

<221> misc\_feature

<222> (1)..(2)

<223> n is a, c, g, or t

# 42623-0044\_seq listing

<220>  
 <221> misc\_feature  
 <222> (116)..(116)  
 <223> n is a, c, g, or t

<220>  
 <221> misc\_feature  
 <222> (127)..(127)  
 <223> n is a, c, g, or t

<220>  
 <221> misc\_feature  
 <222> (137)..(137)  
 <223> n is a, c, g, or t

<220>  
 <221> misc\_feature  
 <222> (139)..(139)  
 <223> n is a, c, g, or t

<220>  
 <221> misc\_feature  
 <222> (142)..(142)  
 <223> n is a, c, g, or t

<220>  
 <221> misc\_feature  
 <222> (145)..(145)  
 <223> n is a, c, g, or t

<220>  
 <221> misc\_feature  
 <222> (148)..(148)  
 <223> n is a, c, g, or t

<220>  
 <221> misc\_feature  
 <222> (150)..(150)  
 <223> n is a, c, g, or t

<400> 75	
nnaagcccg cggacatcc cggatcgga tcatatgaca agatgtgtat ccaccttaac	60
ttaatgattt ttacaaaat cattagggga ttcacagcg caaagcctgc tttganatcc	120
gtaaagngcg gactaanca cncnggncn aa	152

<210> 76  
 <211> 450  
 <212> DNA  
 <213> Artificial

<220>  
 <223> partial gene with transposon insert

<220>  
 <221> misc\_feature  
 <222> (2)..(2)  
 <223> n is a, c, g, or t

<220>

42623-0044\_seq listing

```

<221> misc_feature
<222> (13)..(13)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (202)..(202)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (204)..(205)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (207)..(210)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (234)..(234)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (236)..(236)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (238)..(238)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (244)..(244)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (246)..(246)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (251)..(252)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (255)..(256)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (258)..(258)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (277)..(277)
<223> n is a, c, g, or t

```

# 42623-0044\_seq listing

<220>  
 <221> misc\_feature  
 <222> (281)..(282)  
 <223> n is a, c, g, or t

<220>  
 <221> misc\_feature  
 <222> (284)..(284)  
 <223> n is a, c, g, or t

<220>  
 <221> misc\_feature  
 <222> (290)..(290)  
 <223> n is a, c, g, or t

<220>  
 <221> misc\_feature  
 <222> (292)..(294)  
 <223> n is a, c, g, or t

<220>  
 <221> misc\_feature  
 <222> (301)..(301)  
 <223> n is a, c, g, or t

<220>  
 <221> misc\_feature  
 <222> (306)..(308)  
 <223> n is a, c, g, or t

<220>  
 <221> misc\_feature  
 <222> (313)..(313)  
 <223> n is a, c, g, or t

<220>  
 <221> misc\_feature  
 <222> (316)..(316)  
 <223> n is a, c, g, or t

<220>  
 <221> misc\_feature  
 <222> (318)..(318)  
 <223> n is a, c, g, or t

<220>  
 <221> misc\_feature  
 <222> (325)..(325)  
 <223> n is a, c, g, or t

<220>  
 <221> misc\_feature  
 <222> (327)..(328)  
 <223> n is a, c, g, or t

<220>  
 <221> misc\_feature  
 <222> (332)..(333)  
 <223> n is a, c, g, or t

<220>  
 <221> misc\_feature



## 42623-0044\_seq listing

<222> (341)..(342)  
<223> n is a, c, g, or t

<220>  
<221> misc\_feature  
<222> (349)..(350)  
<223> n is a, c, g, or t

<220>  
<221> misc\_feature  
<222> (352)..(352)  
<223> n is a, c, g, or t

<220>  
<221> misc\_feature  
<222> (354)..(355)  
<223> n is a, c, g, or t

<220>  
<221> misc\_feature  
<222> (359)..(359)  
<223> n is a, c, g, or t

<220>  
<221> misc\_feature  
<222> (361)..(361)  
<223> n is a, c, g, or t

<220>  
<221> misc\_feature  
<222> (365)..(368)  
<223> n is a, c, g, or t

<220>  
<221> misc\_feature  
<222> (371)..(373)  
<223> n is a, c, g, or t

<220>  
<221> misc\_feature  
<222> (377)..(377)  
<223> n is a, c, g, or t

<220>  
<221> misc\_feature  
<222> (380)..(380)  
<223> n is a, c, g, or t

<220>  
<221> misc\_feature  
<222> (386)..(386)  
<223> n is a, c, g, or t

<220>  
<221> misc\_feature  
<222> (389)..(390)  
<223> n is a, c, g, or t

<220>  
<221> misc\_feature  
<222> (392)..(392)  
<223> n is a, c, g, or t

# 42623-0044\_seq listing

<220>  
 <221> misc\_feature  
 <222> (396)..(396)  
 <223> n is a, c, g, or t

<220>  
 <221> misc\_feature  
 <222> (399)..(399)  
 <223> n is a, c, g, or t

<220>  
 <221> misc\_feature  
 <222> (401)..(402)  
 <223> n is a, c, g, or t

<220>  
 <221> misc\_feature  
 <222> (408)..(409)  
 <223> n is a, c, g, or t

<220>  
 <221> misc\_feature  
 <222> (411)..(411)  
 <223> n is a, c, g, or t

<220>  
 <221> misc\_feature  
 <222> (413)..(413)  
 <223> n is a, c, g, or t

<220>  
 <221> misc\_feature  
 <222> (417)..(418)  
 <223> n is a, c, g, or t

<220>  
 <221> misc\_feature  
 <222> (421)..(421)  
 <223> n is a, c, g, or t

<220>  
 <221> misc\_feature  
 <222> (423)..(424)  
 <223> n is a, c, g, or t

<220>  
 <221> misc\_feature  
 <222> (426)..(426)  
 <223> n is a, c, g, or t

<220>  
 <221> misc\_feature  
 <222> (429)..(429)  
 <223> n is a, c, g, or t

<220>  
 <221> misc\_feature  
 <222> (431)..(431)  
 <223> n is a, c, g, or t

<220>  
 <221> misc\_feature  
 <222> (437)..(437)

# 42623-0044\_seq listing

<223> n is a, c, g, or t

<220>

<221> misc\_feature

<222> (448)..(448)

<223> n is a, c, g, or t

<220>

<221> misc\_feature

<222> (450)..(450)

<223> n is a, c, g, or t

<400> 76

gngaaaaaaa cgnaccggat ccgggatcat atgacaagat gtgtatcccc ttaacttaat 60

gatttttacc aaaatcatta ggggattcat cagggttaaa tccattaact cgcgcatcat 120

ttattattac cgaagatctc actcccacaa ttagccttga agattattgt gccgattggg 180

cagtcaaccc gcctgatatc cngnncnnnn gtactagtcg acgcgtggcc atanantnag 240

ctcntnctac nncnnantc ctatccaccc gtggctncag nnancattcn gnnnacacca 300

nttacnnncc agncncntc ccccnngnct cnnectactca nnacttcann anannatgnc 360

nttcnnnnngc nnntcgntcn cccacnacnn cntttnttnc nncctctnnc nanctcnncc 420

ntnncnctnt nattccnctt ttaccctnan 450

<210> 77

<211> 400

<212> DNA

<213> Artificial

<220>

<223> partial gene with transposon insert

<220>

<221> misc\_feature

<222> (2)..(3)

<223> n is a, c, g, or t

<220>

<221> misc\_feature

<222> (9)..(9)

<223> n is a, c, g, or t

<400> 77

gnngaacgnc ggatccggga tatatgacaa gatgtgtatc caccttaact taatgatttt 60

tacaaaaatc attaggggat tcatcagcac ttgcatatga ttgcagtatg gacatcagat 120

ccatcggcgt agcgcaccagc gcattgagcg cgcgaccac gttattgagg ctggcgctgg 180

aacgtacgct ttgcagcgaa ccgccgctct ggcgtaaadc gatctgcgtt tgtggagtaa 240

ccacagtctg tccaccacca aacggtgtat ctggctggct gacattggcc tgacgattaa 300

ctgttactga gagattcccc tgcgctaccg cgagctgtc gagggtcact tcgcgattca 360

tcaccaccga accggtgctg gagttaatca ctacttttagc 400

# 42623-0044\_seq listing

<210> 78  
<211> 450  
<212> DNA  
<213> Artificial

<220>  
<223> partial gene with transposon insert

<220>  
<221> misc\_feature  
<222> (2)..(2)  
<223> n is a, c, g, or t

<220>  
<221> misc\_feature  
<222> (4)..(4)  
<223> n is a, c, g, or t

<220>  
<221> misc\_feature  
<222> (13)..(13)  
<223> n is a, c, g, or t

<220>  
<221> misc\_feature  
<222> (155)..(155)  
<223> n is a, c, g, or t

<400> 78	
tnghaaaaac gtnccggatc cgggatcata tgacaagatg tgtatccacc ttaacttaat	60
gattttttacc aaaatcatta ggggattcat caggggtcagg tctggattta agttccatcc	120
ttgatagcct caccgccgcg caaaaagcga cgctnacccc catttcaaat cagcaatcgt	180
cgttttaccgc taaacttagc gcctacggta cgctgaaaag cgcgctgacg actttccaga	240
ccgccaatat tgcattgtct aaagccgatc ttttttccgc caccagcacc accagcagca	300
ccaccgcggt cagtgccacc actgcgggta acgccatcgc cgggaaatac accatcagcg	360
tcacccatct ggcgcaggcg caaacctga ccacgcgcac caccagagac gatacgaaaa	420
cggcgatcgc caccagcgac agtaaactca	450

<210> 79  
<211> 397  
<212> DNA  
<213> Artificial

<220>  
<223> partial gene with transposon insert

<220>  
<221> misc\_feature  
<222> (1)..(2)  
<223> n is a, c, g, or t

# 42623-0044\_seq listing

<220>  
 <221> misc\_feature  
 <222> (4)..(5)  
 <223> n is a, c, g, or t

<220>  
 <221> misc\_feature  
 <222> (22)..(22)  
 <223> n is a, c, g, or t

<220>  
 <221> misc\_feature  
 <222> (24)..(24)  
 <223> n is a, c, g, or t

<220>  
 <221> misc\_feature  
 <222> (26)..(27)  
 <223> n is a, c, g, or t

<220>  
 <221> misc\_feature  
 <222> (32)..(32)  
 <223> n is a, c, g, or t

<220>  
 <221> misc\_feature  
 <222> (36)..(36)  
 <223> n is a, c, g, or t

<220>  
 <221> misc\_feature  
 <222> (89)..(89)  
 <223> n is a, c, g, or t

<220>  
 <221> misc\_feature  
 <222> (93)..(93)  
 <223> n is a, c, g, or t

<220>  
 <221> misc\_feature  
 <222> (157)..(157)  
 <223> n is a, c, g, or t

<220>  
 <221> misc\_feature  
 <222> (166)..(166)  
 <223> n is a, c, g, or t

<220>  
 <221> misc\_feature  
 <222> (241)..(241)  
 <223> n is a, c, g, or t

<220>  
 <221> misc\_feature  
 <222> (284)..(284)  
 <223> n is a, c, g, or t

<220>  
 <221> misc\_feature  
 <222> (303)..(303)

# 42623-0044\_seq listing

<223> n is a, c, g, or t

<220>

<221> misc\_feature

<222> (311)..(311)

<223> n is a, c, g, or t

<220>

<221> misc\_feature

<222> (316)..(316)

<223> n is a, c, g, or t

<220>

<221> misc\_feature

<222> (319)..(319)

<223> n is a, c, g, or t

<220>

<221> misc\_feature

<222> (327)..(328)

<223> n is a, c, g, or t

<220>

<221> misc\_feature

<222> (331)..(331)

<223> n is a, c, g, or t

<220>

<221> misc\_feature

<222> (340)..(340)

<223> n is a, c, g, or t

<220>

<221> misc\_feature

<222> (359)..(359)

<223> n is a, c, g, or t

<220>

<221> misc\_feature

<222> (363)..(363)

<223> n is a, c, g, or t

<220>

<221> misc\_feature

<222> (374)..(374)

<223> n is a, c, g, or t

<220>

<221> misc\_feature

<222> (379)..(379)

<223> n is a, c, g, or t

<220>

<221> misc\_feature

<222> (382)..(382)

<223> n is a, c, g, or t

<400> 79

nnannaacaa tacgtcccaa gnananntga cnagangtgt atccacctta acttaatgat 60

ttttaccaa atcattaggg gattcatcng ggnccggtct ggatttaagt ttccatcctt 120

gatagcctca ccgccgcgca aaaagcgacg ctaaccncca tttcanatca gcaatcgtcg 180

# 42623-0044\_seq listing

```

tttaccgcta aacttagcgc ctacggtacg ctgaaaagcg cgctgacgac tttccagacc 240
nccaatactg cattgtctaa agccgatctt ttttccgcca ccancaccac ctgcagcacc 300
acngcgttca ntgccncnc tgcgggnnac nccatcgccn ggaaataccc cattaccgnt 360
canccatctg gcanatgcng cnaacccttg aacacgc 397

```

```

<210> 80
<211> 331
<212> DNA
<213> Artificial

```

```

<220>
<223> partial gene with transposon insert

```

```

<400> 80
aaaacgtccg gatccgggat catatgacaa gatgtgtatc caccttaact taatgatttt 60
taccaaaatc attaggggat tcatcagcgc tcaatctgcg cgcccagcgt caggaagtgc 120
tggcagcaaa catcgccaat gccgataccc ctgggttatca ggcgcgcgat atcgattttg 180
ccagtgaact taaaaaagtc atgcaacgtg gacgggatgc aaccagtgtg gttgcactga 240
cgatgacctc aacgcaacac attccggcgc aggcgctgac gcctcctacc gcagaactgc 300
aataccgtat tccggaccag ctttcgcttg a 331

```

```

<210> 81
<211> 276
<212> DNA
<213> Artificial

```

```

<220>
<223> partial gene with transposon insert

```

```

<220>
<221> misc_feature
<222> (10)..(10)
<223> n is a, c, g, or t

```

```

<220>
<221> misc_feature
<222> (146)..(146)
<223> n is a, c, g, or t

```

```

<220>
<221> misc_feature
<222> (151)..(151)
<223> n is a, c, g, or t

```

```

<220>
<221> misc_feature
<222> (153)..(156)
<223> n is a, c, g, or t

```

```

<220>
<221> misc_feature

```

42623-0044\_seq listing

```

<222> (158)..(158)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (160)..(164)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (166)..(166)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (221)..(221)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (229)..(229)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (233)..(234)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (253)..(254)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (256)..(256)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (258)..(261)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (263)..(263)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (266)..(266)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (270)..(270)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (272)..(273)
<223> n is a, c, g, or t

```



# 42623-0044\_seq listing

<220>  
 <221> misc\_feature  
 <222> (276)..(276)  
 <223> n is a, c, g, or t

<400> 81  
 ataaaacggn taccggatcc gggatcatat gacagatgtg tatccacctt aacttaatga 60  
 tttttaccaa aatcattagg ggattcatga gggcgctggt tccacagccc ttttaacggt 120  
 tcaggcatta atatccagca cagtgnccct ngnnnnncncn nnnnntcca ctgattcaac 180  
 tgcagcttcc agctaataatc aatatcttcg gtgatcatat nagtccacnc ggnnctagtc 240  
 gacgcgtggc cannantnnn ncnttttttn tnnctn 276

<210> 82  
 <211> 264  
 <212> DNA  
 <213> Artificial

<220>  
 <223> partial gene with transposon insert

<220>  
 <221> misc\_feature  
 <222> (211)..(214)  
 <223> n is a, c, g, or t

<220>  
 <221> misc\_feature  
 <222> (216)..(219)  
 <223> n is a, c, g, or t

<220>  
 <221> misc\_feature  
 <222> (241)..(241)  
 <223> n is a, c, g, or t

<220>  
 <221> misc\_feature  
 <222> (243)..(244)  
 <223> n is a, c, g, or t

<220>  
 <221> misc\_feature  
 <222> (246)..(246)  
 <223> n is a, c, g, or t

<220>  
 <221> misc\_feature  
 <222> (248)..(249)  
 <223> n is a, c, g, or t

<220>  
 <221> misc\_feature  
 <222> (253)..(253)  
 <223> n is a, c, g, or t

<220>  
 <221> misc\_feature

# 42623-0044\_seq listing

<222> (257)..(257)  
<223> n is a, c, g, or t

<220>  
<221> misc\_feature  
<222> (259)..(260)  
<223> n is a, c, g, or t

<220>  
<221> misc\_feature  
<222> (263)..(264)  
<223> n is a, c, g, or t

<400> 82	
tttaaaaacc ggttaccgga tccgggatca tatgacaaga tgtgtatcca ccttaactta	60
atgatttttta ccaaatacat taggggatcc atcagtgcc ggcgtctttt ccggccattg	120
tcgcagcact gtaacgcgta aaatagtgtt ttctcttact cttctggctg gaccatgaga	180
cttctgattc tgactctttc attaatatcc nnnncnnng tactagtcga cgcgtggcca	240
nannantnnt atnttttnann acnn	264

<210> 83  
<211> 242  
<212> DNA  
<213> Artificial

<220>  
<223> partial gene with transposon insert

<220>  
<221> misc\_feature  
<222> (21)..(21)  
<223> n is a, c, g, or t

<220>  
<221> misc\_feature  
<222> (168)..(169)  
<223> n is a, c, g, or t

<220>  
<221> misc\_feature  
<222> (173)..(175)  
<223> n is a, c, g, or t

<220>  
<221> misc\_feature  
<222> (199)..(199)  
<223> n is a, c, g, or t

<220>  
<221> misc\_feature  
<222> (201)..(201)  
<223> n is a, c, g, or t

<220>  
<221> misc\_feature  
<222> (204)..(204)  
<223> n is a, c, g, or t

# 42623-0044\_seq listing

<220>  
 <221> misc\_feature  
 <222> (206)..(206)  
 <223> n is a, c, g, or t

<220>  
 <221> misc\_feature  
 <222> (208)..(208)  
 <223> n is a, c, g, or t

<220>  
 <221> misc\_feature  
 <222> (214)..(214)  
 <223> n is a, c, g, or t

<220>  
 <221> misc\_feature  
 <222> (216)..(216)  
 <223> n is a, c, g, or t

<220>  
 <221> misc\_feature  
 <222> (229)..(231)  
 <223> n is a, c, g, or t

<220>  
 <221> misc\_feature  
 <222> (234)..(234)  
 <223> n is a, c, g, or t

<220>  
 <221> misc\_feature  
 <222> (237)..(237)  
 <223> n is a, c, g, or t

<220>  
 <221> misc\_feature  
 <222> (239)..(240)  
 <223> n is a, c, g, or t

<400> 83	
ttgaaaaccg ctccggatcc nggatcatat gacaagatgt gtatccacct taacttaatg	60
atttttacca aaatcattag gggattcatc agcgttaaat tggcatcgtc atcgcggcag	120
caagttgatt attacgtaat gcctgcacgt aattctgtgg gatatccnnc ccnnncgtac	180
tagtcgacgc gtggccatnt nactnncngc aatncnttct gacacttcnn nttncntnn	240
at	242

<210> 84  
 <211> 338  
 <212> DNA  
 <213> Artificial

<220>  
 <223> partial gene with transposon insert

<220>

## 42623-0044\_seq listing

<221> misc\_feature  
<222> (3)..(4)  
<223> n is a, c, g, or t

<220>  
<221> misc\_feature  
<222> (15)..(15)  
<223> n is a, c, g, or t

<220>  
<221> misc\_feature  
<222> (176)..(176)  
<223> n is a, c, g, or t

<220>  
<221> misc\_feature  
<222> (180)..(180)  
<223> n is a, c, g, or t

<220>  
<221> misc\_feature  
<222> (183)..(183)  
<223> n is a, c, g, or t

<220>  
<221> misc\_feature  
<222> (188)..(188)  
<223> n is a, c, g, or t

<220>  
<221> misc\_feature  
<222> (207)..(207)  
<223> n is a, c, g, or t

<220>  
<221> misc\_feature  
<222> (220)..(220)  
<223> n is a, c, g, or t

<220>  
<221> misc\_feature  
<222> (223)..(223)  
<223> n is a, c, g, or t

<220>  
<221> misc\_feature  
<222> (226)..(226)  
<223> n is a, c, g, or t

<220>  
<221> misc\_feature  
<222> (234)..(234)  
<223> n is a, c, g, or t

<220>  
<221> misc\_feature  
<222> (236)..(236)  
<223> n is a, c, g, or t

<220>  
<221> misc\_feature  
<222> (241)..(241)  
<223> n is a, c, g, or t

# 42623-0044\_seq listing

<220>  
 <221> misc\_feature  
 <222> (245)..(245)  
 <223> n is a, c, g, or t

<220>  
 <221> misc\_feature  
 <222> (274)..(274)  
 <223> n is a, c, g, or t

<220>  
 <221> misc\_feature  
 <222> (283)..(283)  
 <223> n is a, c, g, or t

<220>  
 <221> misc\_feature  
 <222> (285)..(285)  
 <223> n is a, c, g, or t

<220>  
 <221> misc\_feature  
 <222> (291)..(291)  
 <223> n is a, c, g, or t

<220>  
 <221> misc\_feature  
 <222> (296)..(296)  
 <223> n is a, c, g, or t

<220>  
 <221> misc\_feature  
 <222> (311)..(312)  
 <223> n is a, c, g, or t

<220>  
 <221> misc\_feature  
 <222> (316)..(316)  
 <223> n is a, c, g, or t

<220>  
 <221> misc\_feature  
 <222> (322)..(322)  
 <223> n is a, c, g, or t

<220>  
 <221> misc\_feature  
 <222> (327)..(327)  
 <223> n is a, c, g, or t

<220>  
 <221> misc\_feature  
 <222> (333)..(333)  
 <223> n is a, c, g, or t

<400> 84  
 gcnnngcggta aacgnccgga tccgggatca ttgacaagat gtgtatccac cttacttaa 60  
 tgattttttac caaaatcatt agggggattc atcagagtta agtgtgacag tgggagttaa 120  
 gtatgccaga ggtacaaaca gatcatccag agacggcgga gttaagcaaa ccacancctn 180

# 42623-0044\_seq listing

cgnatggncg atttcaactt attaacncgt ttcgatgccn tgntgnagga gccnancatt	240
nttcncagcc cgctcatcgc cctgggaacc ttnccccc ctncttcct ntgctngcct	300
tggggccccc nncacncaac gnagacnggg ccnatccc	338

<210> 85  
 <211> 259  
 <212> DNA  
 <213> Artificial

<220>  
 <223> partial gene with transposon insert

<220>  
 <221> misc\_feature  
 <222> (91)..(91)  
 <223> n is a, c, g, or t

<220>  
 <221> misc\_feature  
 <222> (95)..(95)  
 <223> n is a, c, g, or t

<220>  
 <221> misc\_feature  
 <222> (97)..(97)  
 <223> n is a, c, g, or t

<220>  
 <221> misc\_feature  
 <222> (100)..(100)  
 <223> n is a, c, g, or t

<220>  
 <221> misc\_feature  
 <222> (102)..(102)  
 <223> n is a, c, g, or t

<220>  
 <221> misc\_feature  
 <222> (104)..(106)  
 <223> n is a, c, g, or t

<220>  
 <221> misc\_feature  
 <222> (111)..(111)  
 <223> n is a, c, g, or t

<220>  
 <221> misc\_feature  
 <222> (115)..(115)  
 <223> n is a, c, g, or t

<220>  
 <221> misc\_feature  
 <222> (117)..(117)  
 <223> n is a, c, g, or t

<220>  
 <221> misc\_feature

# 42623-0044\_seq listing

<222> (146)..(146)  
<223> n is a, c, g, or t

<220>  
<221> misc\_feature  
<222> (208)..(208)  
<223> n is a, c, g, or t

<220>  
<221> misc\_feature  
<222> (210)..(210)  
<223> n is a, c, g, or t

<220>  
<221> misc\_feature  
<222> (230)..(230)  
<223> n is a, c, g, or t

<220>  
<221> misc\_feature  
<222> (232)..(232)  
<223> n is a, c, g, or t

<220>  
<221> misc\_feature  
<222> (241)..(243)  
<223> n is a, c, g, or t

<220>  
<221> misc\_feature  
<222> (246)..(250)  
<223> n is a, c, g, or t

<220>  
<221> misc\_feature  
<222> (254)..(254)  
<223> n is a, c, g, or t

<220>  
<221> misc\_feature  
<222> (256)..(258)  
<223> n is a, c, g, or t

<400> 85  
aaccgtaccg gatccgggat cattgacaag atgtgtatcc accttaactt aatgattttt 60  
accaaaatca ttagggggat tcatcagtcg nacgncnctn tnannnccat ngatntngca 120  
ctgtaacgcg ctaaataacg cttgtntctt actcttcttg ctggaccatg agacttctga 180  
ttctgactct ttcattaata tccccccnch ccgtactagt cgacgcgtgn cnatattatg 240  
nnnccnnnnn ctantnnnc 259

<210> 86  
<211> 250  
<212> DNA  
<213> Artificial

<220>  
<223> partial gene with transposon insert

# 42623-0044\_seq listing

<220>  
 <221> misc\_feature  
 <222> (2)..(3)  
 <223> n is a, c, g, or t

<400> 86  
 cnnccggatc cgggatcata tgacaagatg tgtatccacc ttaacttaat gattttttacc 60  
 aaaatcatta ggggattcat cagaggcaag tgtcaataat ctgacgagca agttttatttc 120  
 gttccattag ctacctctct ctgattcaaa acagggcaat aatgttggtc ctttcacact 180  
 attgaattag ccgtttaatt acccaccatc ttcttctga ttaacaagaa agaaattcac 240  
 aagcttatat 250

<210> 87  
 <211> 390  
 <212> DNA  
 <213> Artificial

<220>  
 <223> partial gene with transposon insert

<220>  
 <221> misc\_feature  
 <222> (5)..(5)  
 <223> n is a, c, g, or t

<400> 87  
 aacgnccgat tccggatcat atgacaagat gtgtatccac cttaacttaa tgattttttac 60  
 caaaatcatt aggggattca tcagccagat gcgttcctga ccctcaagtg agacttcatg 120  
 acgctggtta ctgtcgaaa aatcagtga agcccaggag acaccgtact tacgccgctc 180  
 attttgatac cagcgaacat aagcctgagc actgttgctt gtaacaccat ttttcattgc 240  
 ccgtaatgga acgcggtgag agaggcggtc cagttgcgaa ccaatacgcc agttatcatt 300  
 aaaatcatac cagccagaca ggcgcgcgcc gggtttatgc tcatgattga aaacgcgttc 360  
 agcgtactct gcctcgagcc agatattacg 390

<210> 88  
 <211> 314  
 <212> DNA  
 <213> Artificial

<220>  
 <223> partial gene with transposon insert

<220>  
 <221> misc\_feature  
 <222> (5)..(6)  
 <223> n is a, c, g, or t

<220>



## 42623-0044\_seq listing

<221> misc\_feature  
 <222> (139)..(139)  
 <223> n is a, c, g, or t

<220>  
 <221> misc\_feature  
 <222> (141)..(141)  
 <223> n is a, c, g, or t

<220>  
 <221> misc\_feature  
 <222> (144)..(144)  
 <223> n is a, c, g, or t

<220>  
 <221> misc\_feature  
 <222> (149)..(149)  
 <223> n is a, c, g, or t

<220>  
 <221> misc\_feature  
 <222> (153)..(155)  
 <223> n is a, c, g, or t

<220>  
 <221> misc\_feature  
 <222> (157)..(157)  
 <223> n is a, c, g, or t

<220>  
 <221> misc\_feature  
 <222> (162)..(162)  
 <223> n is a, c, g, or t

<220>  
 <221> misc\_feature  
 <222> (170)..(170)  
 <223> n is a, c, g, or t

<220>  
 <221> misc\_feature  
 <222> (176)..(176)  
 <223> n is a, c, g, or t

<220>  
 <221> misc\_feature  
 <222> (178)..(178)  
 <223> n is a, c, g, or t

<400> 88  
 aacgnnccgg atccgggatc atatgacaag atgtgtatcc accttaactt aatgattttt 60  
 accaaaatca ttaggggatt catcagtgcc cagggttttc accttgcaat ggccgggtat 120  
 aaacaggcag gaaattgana ncantgagnc atnnncnacg anaccaattn ctggcntngc 180  
 cgggcattat ctttttaatt ctctttccca tcattctttc gctatggatt gccttccttt 240  
 gggcaaaatc agaagtgaat aatcagctcc gaacctttgc tcaactggca ctggataaat 300  
 ccgagctggt catt 314

42623-0044\_seq listing

<210> 89  
 <211> 432  
 <212> DNA  
 <213> Artificial

<220>  
 <223> partial gene with transposon insert

<220>  
 <221> misc\_feature  
 <222> (2)..(2)  
 <223> n is a, c, g, or t

<400> 89  
 cncgccggac atccggatcc gggatcatat gacaagatgt gtatccacct taacttaatg 60  
 atttttacca aaatcattag gggattcatc aggtgacagt tagcgcgccc ggataatttt 120  
 cactctccag gtggctgtaa aagagatccg caagttcttc atcggataaa tccggggcaa 180  
 tgggtctcctt gtgataaaag agctcgggtca ttattgactg tgcttttttc ggctgatgat 240  
 ctttgagata agccgatgca acccaatatt gccccaggg cggaataatt tgccccgtct 300  
 tttttaatcg ctgatagtga gaaataacgt ctttataacg atcgcgagtt aataacgcgc 360  
 caagatgatc aacctgaata cgctgggtact gggcagtgcg gtctgggtta tcgtgccaca 420  
 gaatttctaa tg 432

<210> 90  
 <211> 209  
 <212> DNA  
 <213> Artificial

<220>  
 <223> partial gene with transposon insert

<220>  
 <221> misc\_feature  
 <222> (89)..(89)  
 <223> n is a, c, g, or t

<220>  
 <221> misc\_feature  
 <222> (95)..(95)  
 <223> n is a, c, g, or t

<220>  
 <221> misc\_feature  
 <222> (99)..(99)  
 <223> n is a, c, g, or t

<220>  
 <221> misc\_feature  
 <222> (110)..(110)  
 <223> n is a, c, g, or t

<220>  
 <221> misc\_feature

# 42623-0044\_seq listing

<222> (112)..(112)  
<223> n is a, c, g, or t

<220>  
<221> misc\_feature  
<222> (121)..(122)  
<223> n is a, c, g, or t

<220>  
<221> misc\_feature  
<222> (136)..(136)  
<223> n is a, c, g, or t

<400> 90  
aaacgaccgg accggatcat atgacaagat gtgtatccac cttaacttaa tgatttttac 60  
caaaatcatt aggggattca tcagtgccng gcgtntttnc cggccattgn cncagcactg 120  
nnacgcgtaa aatagngctt tctcttactc ttctggctgg accatgagac ttctgattct 180  
gactctttca ttaatatccc ccccccccg 209

<210> 91  
<211> 450  
<212> DNA  
<213> Artificial

<220>  
<223> partial gene with transposon insert

<220>  
<221> misc\_feature  
<222> (1)..(1)  
<223> n is a, c, g, or t

<220>  
<221> misc\_feature  
<222> (4)..(5)  
<223> n is a, c, g, or t

<220>  
<221> misc\_feature  
<222> (11)..(11)  
<223> n is a, c, g, or t

<220>  
<221> misc\_feature  
<222> (200)..(200)  
<223> n is a, c, g, or t

<220>  
<221> misc\_feature  
<222> (205)..(205)  
<223> n is a, c, g, or t

<220>  
<221> misc\_feature  
<222> (208)..(208)  
<223> n is a, c, g, or t

<220>

# 42623-0044\_seq listing

<221> misc\_feature  
<222> (210)..(210)  
<223> n is a, c, g, or t

<220>  
<221> misc\_feature  
<222> (214)..(214)  
<223> n is a, c, g, or t

<220>  
<221> misc\_feature  
<222> (419)..(420)  
<223> n is a, c, g, or t

<220>  
<221> misc\_feature  
<222> (427)..(428)  
<223> n is a, c, g, or t

<220>  
<221> misc\_feature  
<222> (431)..(431)  
<223> n is a, c, g, or t

<220>  
<221> misc\_feature  
<222> (434)..(434)  
<223> n is a, c, g, or t

<220>  
<221> misc\_feature  
<222> (439)..(439)  
<223> n is a, c, g, or t

<400> 91  
ngannatacg nccgatccgg gatcatatga caagatgtgt atccccttaa cttaatgatt 60  
tttaccaaaa tcattagggg attcatcagg ttgaaacatc ttataagggg tggcaaaact 120  
caccgggggat gcaagcgaaa caggggagtc attgcttaga tgatgacagg taatggcgcg 180  
gatatcgaat gttatgcaan caganaanan cagnctgttc aaatggctgt gcgattcttg 240  
atagcccgaa atagtcaact tcaggctatc cagagagcgg aattattccg ccaaagtgcg 300  
tttttgctgt tcgagatcgc gttcaatgcc gtcacgaaca tcctggggga ttttcagcgc 360  
gtcaccaggt gcattcaggt aactgcgttc cataaaatgg tcaatatcaa tagccgcggn 420  
actaatnnac ncnnggccna ggcctcttc 450

<210> 92  
<211> 469  
<212> DNA  
<213> Artificial

<220>  
<223> partial gene with transposon insert

<220>  
<221> misc\_feature

# 42623-0044\_seq listing

<222> (3)..(3)  
<223> n is a, c, g, or t

<220>  
<221> misc\_feature  
<222> (378)..(378)  
<223> n is a, c, g, or t

<220>  
<221> misc\_feature  
<222> (442)..(442)  
<223> n is a, c, g, or t

<220>  
<221> misc\_feature  
<222> (446)..(449)  
<223> n is a, c, g, or t

<220>  
<221> misc\_feature  
<222> (451)..(451)  
<223> n is a, c, g, or t

<400> 92	
cgncggatc cgggatcata tgacaagatg tgtatccacc ttaacttaat gattttttacc	60
aaaatcatta ggggattcat cagtgccgac ggtcttttga gcgtgacggc gatggagaaa	120
tccaccggcg ttgaggcgctc tattcaggtc aaaccgtctt acggtctgac cgatagcgaa	180
atcgcttcga tgatcaaaga ctcaatgagc tatgccgagc aggacgtaaa agcccgaatg	240
ctggcagaac aaaaagtaga agcggcgcggt gtgctggaac gtctgcacgg cgcgctggct	300
gctgatgccg cgctgttaag cgccgcagaa cgtcagggtca ttgacgatgc tgccgctcac	360
ctgagtgaag tggcgcangg cgatgatgtt gacgccatcg aacaagcgat taaaaacgta	420
gacaaacaaa cccaggatat cccccnnnc ngtagtagtc gacgcgtgg	469

<210> 93  
<211> 212  
<212> DNA  
<213> Artificial

<220>  
<223> partial gene with transposon insert

<220>  
<221> misc\_feature  
<222> (1)..(1)  
<223> n is a, c, g, or t

<220>  
<221> misc\_feature  
<222> (134)..(143)  
<223> n is a, c, g, or t

<220>  
<221> misc\_feature  
<222> (167)..(167)

# 42623-0044\_seq listing

<223> n is a, c, g, or t

<220>

<221> misc\_feature

<222> (170)..(175)

<223> n is a, c, g, or t

<220>

<221> misc\_feature

<222> (177)..(180)

<223> n is a, c, g, or t

<220>

<221> misc\_feature

<222> (182)..(188)

<223> n is a, c, g, or t

<220>

<221> misc\_feature

<222> (190)..(195)

<223> n is a, c, g, or t

<220>

<221> misc\_feature

<222> (198)..(199)

<223> n is a, c, g, or t

<220>

<221> misc\_feature

<222> (201)..(203)

<223> n is a, c, g, or t

<220>

<221> misc\_feature

<222> (205)..(209)

<223> n is a, c, g, or t

<220>

<221> misc\_feature

<222> (211)..(211)

<223> n is a, c, g, or t

<400> 93

ngaaaaacgt ccggatccgg gatcatatga caagatgtgt atccacctta acttaatgat 60

ttttaccaaaa atcattaggg gattcatcag ctccgcgccc tggtttttaa cattaccac 120

cgcgcgcgat atcnnnnnnn nngtactag tcgacgcgtg ggccaantan nnnnnnnnnn 180

tnnnnnnnntn nnnnnnngnt nnnnnnnnnc nc 212

<210> 94

<211> 290

<212> DNA

<213> Artificial

<220>

<223> partial gene with transposon insert

<220>

<221> misc\_feature

42623-0044\_seq listing

<222> (270)..(271)  
<223> n is a, c, g, or t

<220>  
<221> misc\_feature  
<222> (273)..(273)  
<223> n is a, c, g, or t

<220>  
<221> misc\_feature  
<222> (288)..(288)  
<223> n is a, c, g, or t

<220>  
<221> misc\_feature  
<222> (290)..(290)  
<223> n is a, c, g, or t

<400> 94  
aaaaaccggt accggatccg ggatcatatg acaagatgtg tatccacctt aacttaatga 60  
tttttaccaa aatcattagg ggattcatca gagttaagtg tgacagtgga gttaagtatg 120  
ccagaggtac aaacagatca tccagagacg gcggagttaa gcaaaccaca gctacgcatg 180  
gtcgatctca acttattaac cgttttcgat gccgtgatgc aggagcaaaa cattactcgt 240  
gccgctcatg ttctgggaat atccccccn ncngtactag tcgacgcngn 290

<210> 95  
<211> 269  
<212> DNA  
<213> Artificial

<220>  
<223> partial gene with transposon insert

<400> 95  
aaaaaccggt accggatccg ggatcatatg acaagatgtg tatccacctt aacttaatga 60  
tttttaccaa aatcattagg ggattcatca gagttaagtg tgacagtgga gttaagtatg 120  
ccagaggtac aaacagatca tccagagacg gcggagttaa gcaaaccaca gctacgcatg 180  
gtcgatctca acttattaac cgttttcgat gccgtgatgc aggagcaaaa cattactcgt 240  
gccgctcatg ttctgggaat atccccccc 269

<210> 96  
<211> 404  
<212> DNA  
<213> Artificial

<220>  
<223> partial gene with transposon insert

<220>  
<221> misc\_feature  
<222> (2)..(2)  
<223> n is a, c, g, or t

# 42623-0044\_seq listing

```

<400> 96
cncgccggac atccggatcc gggatcatat gacaagatgt gtatccacct taacttaatg      60
atttttacca aatcattag gggattcatc aggtgacagt tagcgcgccc ggataatttt      120
cactctccag gtggctgtaa aagagatccg caagttcttc atcggataaa tccggggcaa      180
tggtctcctt gtgataaaag agctcggta ttattgactg tgcttttttc ggctgatgat      240
ctttgagata agccgatgca acccaatatt gccccaggg cggaataatt tgccccgtct      300
tttttaatcg ctgatagtga gaaataacgt ctttataacg atcgcgagtt aataacgcgc      360
caagatgatc aacctgaata cgctgggtact gggcagtgcg gtct                      404

```

```

<210> 97
<211> 291
<212> DNA
<213> Artificial

```

```

<220>
<223> partial gene with transposon insert

```

```

<220>
<221> misc_feature
<222> (99)..(99)
<223> n is a, c, g, or t

```

```

<220>
<221> misc_feature
<222> (131)..(131)
<223> n is a, c, g, or t

```

```

<220>
<221> misc_feature
<222> (154)..(154)
<223> n is a, c, g, or t

```

```

<220>
<221> misc_feature
<222> (156)..(156)
<223> n is a, c, g, or t

```

```

<220>
<221> misc_feature
<222> (162)..(162)
<223> n is a, c, g, or t

```

```

<220>
<221> misc_feature
<222> (204)..(204)
<223> n is a, c, g, or t

```

```

<400> 97
aaaaaccgtt accggatccg ggatcatatg acaagatgtg tatccacctt aacttaatga      60
tttttaccaa aatcattagg ggattcatca ggagctggng cgttttctcc ccacggccag      120
tggcgttcac natagacca gaaatagacg ccgncnacaa tncacataat ggacataaaa      180

```



# 42623-0044\_seq listing

aacggccaga agaaaacgaa cctnatcatc agttcaccga gtgaaagtac gctacgcata 240  
 ggggtatgca taacaccaga cataatataa aaaacgatac gatgcgatta a 291

<210> 98  
 <211> 400  
 <212> DNA  
 <213> Artificial

<220>  
 <223> partial gene with transposon insert

<220>  
 <221> misc\_feature  
 <222> (9)..(9)  
 <223> n is a, c, g, or t

<400> 98  
 gagatacgnc cggatccggg atcatatgac aagatgtgta tccaccttaa cttaatgatt 60  
 tttaacaaaa tcattagggg attcatcagt gtcaccacct ggcccggatg ctggctttca 120  
 tgtattcgat gttgatggcc gttttgttct tgcgtggatg ctgtttcaag gttctttacct 180  
 tgccggggcg ctcggcgatc agccagtcca catccacctc ggccagctcc tcgcgctgtg 240  
 gcgccccttg gtagccggca tcggctgaga caaattgctc ctctccatgc agcagattac 300  
 ccagctgatt gaggtcatgc tcgttggccg cggtggtgac caggctgtgg gtcaggccac 360  
 tcttggcatc gacaccaatg tgggccttca tgccaaagtg 400

<210> 99  
 <211> 434  
 <212> DNA  
 <213> Artificial

<220>  
 <223> partial gene with transposon insert

<220>  
 <221> misc\_feature  
 <222> (3)..(3)  
 <223> n is a, c, g, or t

<220>  
 <221> misc\_feature  
 <222> (145)..(146)  
 <223> n is a, c, g, or t

<220>  
 <221> misc\_feature  
 <222> (148)..(148)  
 <223> n is a, c, g, or t

<220>  
 <221> misc\_feature  
 <222> (150)..(150)  
 <223> n is a, c, g, or t

# 42623-0044\_seq listing

```

<220>
<221> misc_feature
<222> (158)..(158)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (230)..(230)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (234)..(235)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (241)..(241)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (244)..(244)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (247)..(248)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (262)..(262)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (265)..(268)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (270)..(270)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (272)..(274)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (277)..(279)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (282)..(284)
<223> n is a, c, g, or t

<220>
<221> misc_feature

```

42623-0044\_seq listing

```

<222> (287)..(288)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (290)..(290)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (292)..(293)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (295)..(295)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (303)..(303)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (309)..(311)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (315)..(316)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (318)..(318)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (323)..(323)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (326)..(326)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (330)..(330)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (333)..(333)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (336)..(336)
<223> n is a, c, g, or t

```

# 42623-0044\_seq listing

<220>  
 <221> misc\_feature  
 <222> (338)..(338)  
 <223> n is a, c, g, or t

<220>  
 <221> misc\_feature  
 <222> (340)..(344)  
 <223> n is a, c, g, or t

<220>  
 <221> misc\_feature  
 <222> (346)..(346)  
 <223> n is a, c, g, or t

<220>  
 <221> misc\_feature  
 <222> (351)..(351)  
 <223> n is a, c, g, or t

<220>  
 <221> misc\_feature  
 <222> (361)..(362)  
 <223> n is a, c, g, or t

<220>  
 <221> misc\_feature  
 <222> (367)..(367)  
 <223> n is a, c, g, or t

<220>  
 <221> misc\_feature  
 <222> (372)..(373)  
 <223> n is a, c, g, or t

<220>  
 <221> misc\_feature  
 <222> (376)..(377)  
 <223> n is a, c, g, or t

<220>  
 <221> misc\_feature  
 <222> (381)..(381)  
 <223> n is a, c, g, or t

<220>  
 <221> misc\_feature  
 <222> (386)..(387)  
 <223> n is a, c, g, or t

<220>  
 <221> misc\_feature  
 <222> (390)..(390)  
 <223> n is a, c, g, or t

<220>  
 <221> misc\_feature  
 <222> (393)..(393)  
 <223> n is a, c, g, or t

<220>  
 <221> misc\_feature  
 <222> (395)..(396)

42623-0044\_seq listing

<223> n is a, c, g, or t

<220>

<221> misc\_feature

<222> (401)..(401)

<223> n is a, c, g, or t

<220>

<221> misc\_feature

<222> (404)..(404)

<223> n is a, c, g, or t

<220>

<221> misc\_feature

<222> (407)..(410)

<223> n is a, c, g, or t

<220>

<221> misc\_feature

<222> (414)..(415)

<223> n is a, c, g, or t

<220>

<221> misc\_feature

<222> (418)..(418)

<223> n is a, c, g, or t

<220>

<221> misc\_feature

<222> (420)..(420)

<223> n is a, c, g, or t

<220>

<221> misc\_feature

<222> (422)..(422)

<223> n is a, c, g, or t

<220>

<221> misc\_feature

<222> (427)..(428)

<223> n is a, c, g, or t

<220>

<221> misc\_feature

<222> (432)..(432)

<223> n is a, c, g, or t

<400> 99

cgncgatcc gggatcatat gacaagatgt gtatccacct taacttaatg atttttacca 60

aaatcattag gggattcatc aggatgaatt acgggcatg acagagtcac tacctgaaaa 120

tgcattctacg caacaatatc ccacnnantn gtactagncg acgcgtggcc atcaacttgc 180

tgccgcgatt gacgatgcca atttaacgcc agatattcgc gctgatattn ctanncgacg 240

ngcnggnnga cgcgtggcca angcnnnnn tnnnctnnna annntgnnn gnnnctggc 300

tgntgtccnn nctgnnancg ccncanaach tcntgncntn nnnnangctg ncgccctta 360

nngaagnggc cnggnnaat natgttnnncn ccntnnccaa ncgnttnnnn actnnacnan 420

cnaccnnga tntc 434

# 42623-0044\_seq listing

<210> 100  
 <211> 250  
 <212> DNA  
 <213> Artificial

<220>  
 <223> partial gene with transposon insert

<220>  
 <221> misc\_feature  
 <222> (156)..(157)  
 <223> n is a, c, g, or t

<220>  
 <221> misc\_feature  
 <222> (161)..(161)  
 <223> n is a, c, g, or t

<220>  
 <221> misc\_feature  
 <222> (188)..(189)  
 <223> n is a, c, g, or t

<220>  
 <221> misc\_feature  
 <222> (192)..(194)  
 <223> n is a, c, g, or t

<220>  
 <221> misc\_feature  
 <222> (198)..(199)  
 <223> n is a, c, g, or t

<220>  
 <221> misc\_feature  
 <222> (206)..(206)  
 <223> n is a, c, g, or t

<220>  
 <221> misc\_feature  
 <222> (215)..(215)  
 <223> n is a, c, g, or t

<220>  
 <221> misc\_feature  
 <222> (221)..(221)  
 <223> n is a, c, g, or t

<220>  
 <221> misc\_feature  
 <222> (231)..(231)  
 <223> n is a, c, g, or t

<220>  
 <221> misc\_feature  
 <222> (236)..(245)  
 <223> n is a, c, g, or t

<220>  
 <221> misc\_feature

# 42623-0044\_seq listing

<222> (248)..(248)

<223> n is a, c, g, or t

<400> 100

cacggatccg ggatatatga caagatgtgt atccacctta acttaatgat ttttaccaa 60

atcattaggg gattcatcag cgtaaattg gcatcgtcaa tcgcggcagc aagttgatta 120

ttacgtaatg cctgcacgta ttctgtggga tatccnnccc ncccgacta gtcgacgcgt 180

ggccatgna tnnnccgna ttcattctga tgacnccccg ncagtttata natatnnnn 240

nnnnngtct 250

<210> 101

<211> 458

<212> DNA

<213> Artificial

<220>

<223> partial gene with transposon insert

<220>

<221> misc\_feature

<222> (162)..(162)

<223> n is a, c, g, or t

<220>

<221> misc\_feature

<222> (187)..(189)

<223> n is a, c, g, or t

<220>

<221> misc\_feature

<222> (197)..(197)

<223> n is a, c, g, or t

<220>

<221> misc\_feature

<222> (200)..(200)

<223> n is a, c, g, or t

<220>

<221> misc\_feature

<222> (204)..(204)

<223> n is a, c, g, or t

<220>

<221> misc\_feature

<222> (208)..(209)

<223> n is a, c, g, or t

<220>

<221> misc\_feature

<222> (214)..(216)

<223> n is a, c, g, or t

<220>

<221> misc\_feature

<222> (219)..(219)

<223> n is a, c, g, or t

# 42623-0044\_seq listing

<220>  
 <221> misc\_feature  
 <222> (226)..(226)  
 <223> n is a, c, g, or t

<220>  
 <221> misc\_feature  
 <222> (228)..(229)  
 <223> n is a, c, g, or t

<220>  
 <221> misc\_feature  
 <222> (231)..(231)  
 <223> n is a, c, g, or t

<220>  
 <221> misc\_feature  
 <222> (235)..(236)  
 <223> n is a, c, g, or t

<220>  
 <221> misc\_feature  
 <222> (239)..(241)  
 <223> n is a, c, g, or t

<220>  
 <221> misc\_feature  
 <222> (246)..(246)  
 <223> n is a, c, g, or t

<220>  
 <221> misc\_feature  
 <222> (248)..(248)  
 <223> n is a, c, g, or t

<220>  
 <221> misc\_feature  
 <222> (253)..(253)  
 <223> n is a, c, g, or t

<220>  
 <221> misc\_feature  
 <222> (255)..(255)  
 <223> n is a, c, g, or t

<220>  
 <221> misc\_feature  
 <222> (259)..(259)  
 <223> n is a, c, g, or t

<220>  
 <221> misc\_feature  
 <222> (261)..(261)  
 <223> n is a, c, g, or t

<220>  
 <221> misc\_feature  
 <222> (263)..(264)  
 <223> n is a, c, g, or t

<220>  
 <221> misc\_feature



42623-0044\_seq listing

```

<222> (267)..(268)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (273)..(273)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (278)..(280)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (283)..(285)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (288)..(288)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (293)..(293)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (303)..(303)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (306)..(307)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (313)..(316)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (318)..(318)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (322)..(322)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (327)..(327)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (335)..(336)
<223> n is a, c, g, or t

```

# 42623-0044\_seq listing

<220>  
 <221> misc\_feature  
 <222> (341)..(341)  
 <223> n is a, c, g, or t

<220>  
 <221> misc\_feature  
 <222> (350)..(351)  
 <223> n is a, c, g, or t

<220>  
 <221> misc\_feature  
 <222> (353)..(355)  
 <223> n is a, c, g, or t

<220>  
 <221> misc\_feature  
 <222> (357)..(358)  
 <223> n is a, c, g, or t

<220>  
 <221> misc\_feature  
 <222> (362)..(362)  
 <223> n is a, c, g, or t

<220>  
 <221> misc\_feature  
 <222> (367)..(367)  
 <223> n is a, c, g, or t

<220>  
 <221> misc\_feature  
 <222> (372)..(372)  
 <223> n is a, c, g, or t

<220>  
 <221> misc\_feature  
 <222> (374)..(375)  
 <223> n is a, c, g, or t

<220>  
 <221> misc\_feature  
 <222> (377)..(377)  
 <223> n is a, c, g, or t

<220>  
 <221> misc\_feature  
 <222> (380)..(380)  
 <223> n is a, c, g, or t

<220>  
 <221> misc\_feature  
 <222> (382)..(382)  
 <223> n is a, c, g, or t

<220>  
 <221> misc\_feature  
 <222> (385)..(386)  
 <223> n is a, c, g, or t

<220>  
 <221> misc\_feature  
 <222> (388)..(388)

## 42623-0044\_seq listing

<223> n is a, c, g, or t  
<220>  
<221> misc\_feature  
<222> (390)..(392)  
<223> n is a, c, g, or t  
  
<220>  
<221> misc\_feature  
<222> (394)..(394)  
<223> n is a, c, g, or t  
  
<220>  
<221> misc\_feature  
<222> (397)..(397)  
<223> n is a, c, g, or t  
  
<220>  
<221> misc\_feature  
<222> (399)..(399)  
<223> n is a, c, g, or t  
  
<220>  
<221> misc\_feature  
<222> (404)..(409)  
<223> n is a, c, g, or t  
  
<220>  
<221> misc\_feature  
<222> (414)..(415)  
<223> n is a, c, g, or t  
  
<220>  
<221> misc\_feature  
<222> (419)..(419)  
<223> n is a, c, g, or t  
  
<220>  
<221> misc\_feature  
<222> (421)..(421)  
<223> n is a, c, g, or t  
  
<220>  
<221> misc\_feature  
<222> (431)..(431)  
<223> n is a, c, g, or t  
  
<220>  
<221> misc\_feature  
<222> (433)..(433)  
<223> n is a, c, g, or t  
  
<220>  
<221> misc\_feature  
<222> (435)..(437)  
<223> n is a, c, g, or t  
  
<220>  
<221> misc\_feature  
<222> (442)..(442)  
<223> n is a, c, g, or t  
  
<220>

# 42623-0044\_seq listing

<221> misc\_feature  
<222> (445)..(446)  
<223> n is a, c, g, or t

<220>  
<221> misc\_feature  
<222> (448)..(448)  
<223> n is a, c, g, or t

<220>  
<221> misc\_feature  
<222> (452)..(452)  
<223> n is a, c, g, or t

<220>  
<221> misc\_feature  
<222> (456)..(456)  
<223> n is a, c, g, or t

<400> 101  
aacgcaccgg atccgggatc attgacaaga tgtgtatcca ccttaactta atgattttta 60  
ccaaaatcat taggggattc atcagactga cgcgcccgca aaaagggcgg attgtcctca 120  
atgggcgggt actaaatgat gccgaaaaag gtatctgcct tnccgtacta gtcgacgcgt 180  
ggccacnnnt tcattcnccn ctanctcna agtnnnccna ctccgngnnc naccnnccnn 240  
nccccntngc agnctgtnc ncnacnncg gcnaccnnn gannncgnc cccccgcc 300  
ctntcnnac ctnnnnangg cntaccngcc cctcnngctc ngttaccttn ntntntncc 360  
gnccccnctc ananncnccn tnacnngcn ncnatnct cgcnnnnna gtannccnc 420  
ntccccccac ncnnnnnccg tnttnncnt tnaganct 458

<210> 102  
<211> 455  
<212> DNA  
<213> Artificial

<220>  
<223> partial gene with transposon insert

<220>  
<221> misc\_feature  
<222> (5)..(5)  
<223> n is a, c, g, or t

<220>  
<221> misc\_feature  
<222> (150)..(150)  
<223> n is a, c, g, or t

<220>  
<221> misc\_feature  
<222> (154)..(154)  
<223> n is a, c, g, or t

<220>  
<221> misc\_feature

42623-0044\_seq listing

```

<222> (164)..(164)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (174)..(174)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (191)..(191)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (197)..(197)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (202)..(202)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (205)..(207)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (212)..(213)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (224)..(224)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (227)..(227)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (229)..(229)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (232)..(233)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (242)..(242)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (252)..(252)
<223> n is a, c, g, or t

```

# 42623-0044\_seq listing

<220>  
 <221> misc\_feature  
 <222> (254)..(255)  
 <223> n is a, c, g, or t

<220>  
 <221> misc\_feature  
 <222> (262)..(262)  
 <223> n is a, c, g, or t

<220>  
 <221> misc\_feature  
 <222> (266)..(266)  
 <223> n is a, c, g, or t

<220>  
 <221> misc\_feature  
 <222> (269)..(269)  
 <223> n is a, c, g, or t

<220>  
 <221> misc\_feature  
 <222> (274)..(274)  
 <223> n is a, c, g, or t

<220>  
 <221> misc\_feature  
 <222> (279)..(280)  
 <223> n is a, c, g, or t

<220>  
 <221> misc\_feature  
 <222> (286)..(286)  
 <223> n is a, c, g, or t

<220>  
 <221> misc\_feature  
 <222> (296)..(297)  
 <223> n is a, c, g, or t

<220>  
 <221> misc\_feature  
 <222> (305)..(305)  
 <223> n is a, c, g, or t

<220>  
 <221> misc\_feature  
 <222> (313)..(313)  
 <223> n is a, c, g, or t

<220>  
 <221> misc\_feature  
 <222> (321)..(321)  
 <223> n is a, c, g, or t

<220>  
 <221> misc\_feature  
 <222> (328)..(328)  
 <223> n is a, c, g, or t

<220>  
 <221> misc\_feature  
 <222> (331)..(331)

## 42623-0044\_seq listing

<223> n is a, c, g, or t

<220>

<221> misc\_feature

<222> (335)..(335)

<223> n is a, c, g, or t

<220>

<221> misc\_feature

<222> (337)..(337)

<223> n is a, c, g, or t

<220>

<221> misc\_feature

<222> (343)..(343)

<223> n is a, c, g, or t

<220>

<221> misc\_feature

<222> (345)..(345)

<223> n is a, c, g, or t

<220>

<221> misc\_feature

<222> (348)..(348)

<223> n is a, c, g, or t

<220>

<221> misc\_feature

<222> (350)..(350)

<223> n is a, c, g, or t

<220>

<221> misc\_feature

<222> (353)..(353)

<223> n is a, c, g, or t

<220>

<221> misc\_feature

<222> (363)..(363)

<223> n is a, c, g, or t

<220>

<221> misc\_feature

<222> (370)..(370)

<223> n is a, c, g, or t

<220>

<221> misc\_feature

<222> (373)..(373)

<223> n is a, c, g, or t

<220>

<221> misc\_feature

<222> (375)..(375)

<223> n is a, c, g, or t

<220>

<221> misc\_feature

<222> (381)..(383)

<223> n is a, c, g, or t

<220>

## 42623-0044\_seq listing

<221> misc\_feature  
<222> (386)..(386)  
<223> n is a, c, g, or t

<220>  
<221> misc\_feature  
<222> (392)..(392)  
<223> n is a, c, g, or t

<220>  
<221> misc\_feature  
<222> (401)..(401)  
<223> n is a, c, g, or t

<220>  
<221> misc\_feature  
<222> (408)..(408)  
<223> n is a, c, g, or t

<220>  
<221> misc\_feature  
<222> (411)..(411)  
<223> n is a, c, g, or t

<220>  
<221> misc\_feature  
<222> (413)..(414)  
<223> n is a, c, g, or t

<220>  
<221> misc\_feature  
<222> (417)..(417)  
<223> n is a, c, g, or t

<220>  
<221> misc\_feature  
<222> (420)..(420)  
<223> n is a, c, g, or t

<220>  
<221> misc\_feature  
<222> (422)..(422)  
<223> n is a, c, g, or t

<220>  
<221> misc\_feature  
<222> (427)..(427)  
<223> n is a, c, g, or t

<220>  
<221> misc\_feature  
<222> (430)..(432)  
<223> n is a, c, g, or t

<220>  
<221> misc\_feature  
<222> (435)..(435)  
<223> n is a, c, g, or t

<220>  
<221> misc\_feature  
<222> (439)..(439)  
<223> n is a, c, g, or t



# 42623-0044\_seq listing

<220>  
 <221> misc\_feature  
 <222> (442)..(443)  
 <223> n is a, c, g, or t

<220>  
 <221> misc\_feature  
 <222> (450)..(451)  
 <223> n is a, c, g, or t

<220>  
 <221> misc\_feature  
 <222> (455)..(455)  
 <223> n is a, c, g, or t

<400> 102  
 aacgnaccgg atccgggatc atatgacaag atgtgtatcc accttaactt aatgattttt 60  
 accaaaatca ttaggggatt catcagactg acgcgcccgc aaaaagggcg gattgtcctc 120  
 aatgggcggg tactaaatga tgccgaaaan ggtntcttgc ctgncccgtc ctantcgacg 180  
 cgtggccaac naacctnctt cntannntcg cnnttcccc ttngcncnt cnnccactcc 240  
 cngctgctcc tncnnccttc cncgcncnt accntcgtnn cttantcca cctgcnncta 300  
 tcccncggcc cgnctcccg ncccccnct ncaantngtt cangnacgn ccnccctcgc 360  
 ccnagcgctn ccngngccag nnnctnttca tntccctccc ngatccantc ncnnccnttn 420  
 cncctnacb nncngtcnc tnnccccctn nttan 455

<210> 103  
 <211> 300  
 <212> DNA  
 <213> Artificial

<220>  
 <223> partial gene with transposon insert

<220>  
 <221> misc\_feature  
 <222> (2)..(2)  
 <223> n is a, c, g, or t

<220>  
 <221> misc\_feature  
 <222> (158)..(158)  
 <223> n is a, c, g, or t

<400> 103  
 cncgaccggg atatatgaca agatgtgtat ccaccttaac ttaatgattt ttacaaaaat 60  
 cattagggga ttcatcaggg tttcgctgtc cttttgtgct ttgttatgca ttttctgcgc 120  
 agattcactt tgcgaggcaa tatccatggc atcaaaaanaa tggcaactac ggcacgttgc 180  
 agagtcagtg gcttttaatt ctttccatac tgtttcggcc atttcctggc gatgagcttc 240  
 gaacttatcg tcactgtcta ttttgccgct aacaaattca tgataaatat ctttagatgc 300

# 42623-0044\_seq listing

<210> 104  
 <211> 527  
 <212> DNA  
 <213> Artificial  
 <220>  
 <223> partial gene with transposon insert

<220>  
 <221> misc\_feature  
 <222> (5)..(6)  
 <223> n is a, c, g, or t

<220>  
 <221> misc\_feature  
 <222> (86)..(86)  
 <223> n is a, c, g, or t

<220>  
 <221> misc\_feature  
 <222> (129)..(129)  
 <223> n is a, c, g, or t

<220>  
 <221> misc\_feature  
 <222> (162)..(163)  
 <223> n is a, c, g, or t

<220>  
 <221> misc\_feature  
 <222> (183)..(184)  
 <223> n is a, c, g, or t

<220>  
 <221> misc\_feature  
 <222> (191)..(191)  
 <223> n is a, c, g, or t

<220>  
 <221> misc\_feature  
 <222> (200)..(200)  
 <223> n is a, c, g, or t

<220>  
 <221> misc\_feature  
 <222> (207)..(208)  
 <223> n is a, c, g, or t

<220>  
 <221> misc\_feature  
 <222> (211)..(212)  
 <223> n is a, c, g, or t

<220>  
 <221> misc\_feature  
 <222> (223)..(223)  
 <223> n is a, c, g, or t

<220>  
 <221> misc\_feature

42623-0044\_seq listing

```

<222> (225)..(225)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (229)..(229)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (231)..(231)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (237)..(237)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (239)..(241)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (247)..(247)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (250)..(250)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (253)..(254)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (256)..(256)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (264)..(265)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (269)..(272)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (280)..(281)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (287)..(287)
<223> n is a, c, g, or t

```

# 42623-0044\_seq listing

<220>  
 <221> misc\_feature  
 <222> (291)..(291)  
 <223> n is a, c, g, or t

<220>  
 <221> misc\_feature  
 <222> (296)..(297)  
 <223> n is a, c, g, or t

<220>  
 <221> misc\_feature  
 <222> (304)..(304)  
 <223> n is a, c, g, or t

<220>  
 <221> misc\_feature  
 <222> (311)..(311)  
 <223> n is a, c, g, or t

<220>  
 <221> misc\_feature  
 <222> (319)..(319)  
 <223> n is a, c, g, or t

<220>  
 <221> misc\_feature  
 <222> (322)..(322)  
 <223> n is a, c, g, or t

<220>  
 <221> misc\_feature  
 <222> (332)..(332)  
 <223> n is a, c, g, or t

<220>  
 <221> misc\_feature  
 <222> (337)..(338)  
 <223> n is a, c, g, or t

<220>  
 <221> misc\_feature  
 <222> (343)..(343)  
 <223> n is a, c, g, or t

<220>  
 <221> misc\_feature  
 <222> (363)..(363)  
 <223> n is a, c, g, or t

<220>  
 <221> misc\_feature  
 <222> (369)..(369)  
 <223> n is a, c, g, or t

<220>  
 <221> misc\_feature  
 <222> (372)..(372)  
 <223> n is a, c, g, or t

<220>  
 <221> misc\_feature  
 <222> (374)..(374)

<223> n is a, c, g, or t  
<220>  
<221> misc\_feature  
<222> (378)..(378)  
<223> n is a, c, g, or t  
  
<220>  
<221> misc\_feature  
<222> (388)..(388)  
<223> n is a, c, g, or t  
  
<220>  
<221> misc\_feature  
<222> (397)..(397)  
<223> n is a, c, g, or t  
  
<220>  
<221> misc\_feature  
<222> (403)..(404)  
<223> n is a, c, g, or t  
  
<220>  
<221> misc\_feature  
<222> (408)..(410)  
<223> n is a, c, g, or t  
  
<220>  
<221> misc\_feature  
<222> (418)..(418)  
<223> n is a, c, g, or t  
  
<220>  
<221> misc\_feature  
<222> (425)..(428)  
<223> n is a, c, g, or t  
  
<220>  
<221> misc\_feature  
<222> (433)..(435)  
<223> n is a, c, g, or t  
  
<220>  
<221> misc\_feature  
<222> (437)..(437)  
<223> n is a, c, g, or t  
  
<220>  
<221> misc\_feature  
<222> (445)..(445)  
<223> n is a, c, g, or t  
  
<220>  
<221> misc\_feature  
<222> (448)..(448)  
<223> n is a, c, g, or t  
  
<220>  
<221> misc\_feature  
<222> (455)..(455)  
<223> n is a, c, g, or t  
  
<220>

42623-0044\_seq listing

```

<221> misc_feature
<222> (457)..(457)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (463)..(463)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (465)..(465)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (468)..(468)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (471)..(473)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (477)..(477)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (482)..(482)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (485)..(485)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (488)..(489)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (491)..(491)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (495)..(496)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (498)..(498)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (501)..(501)
<223> n is a, c, g, or t

```

# 42623-0044\_seq listing

<220>  
 <221> misc\_feature  
 <222> (503)..(503)  
 <223> n is a, c, g, or t

<220>  
 <221> misc\_feature  
 <222> (505)..(505)  
 <223> n is a, c, g, or t

<220>  
 <221> misc\_feature  
 <222> (507)..(507)  
 <223> n is a, c, g, or t

<220>  
 <221> misc\_feature  
 <222> (509)..(509)  
 <223> n is a, c, g, or t

<220>  
 <221> misc\_feature  
 <222> (511)..(511)  
 <223> n is a, c, g, or t

<220>  
 <221> misc\_feature  
 <222> (514)..(514)  
 <223> n is a, c, g, or t

<220>  
 <221> misc\_feature  
 <222> (525)..(525)  
 <223> n is a, c, g, or t

<400> 104	
aaacnccgg atccgggatc atatgacaag atgtgtatcc accttaactt aatgattttt	60
accaaaatca ttaggggatt catcanggtt ttgacccatg acagataaac gcaaagatgg	120
ctcatgcana ttgctgtatt gctctttttg cggcaaaagc cnncatgaag tgcgccagct	180
gannagccgg nccatccctn tatatcnnc nncctgtac ctngncggnc ncgtggncnn	240
nctcctntcn ttntntctc cccntctnn nccccctcn ncgcggncnc nctganncg	300
ctccttctt ntacctcnc gngcctctac cctcgnnc tcccccca cctccttatt	360
ccnctcctt cntntcctc tccacctntc ctttccnacc gcnncatnnn acgtctctt	420
ccctnnnnc acnnntnatc cttcngcnc cctcngngcg aancntcnct nnnctancgg	480
cncgntgnnc ntgcnnncn ntnancnc nctnattgag tgcgngt	527

<210> 105  
 <211> 233  
 <212> DNA  
 <213> Artificial

<220>  
 <223> partial gene with transposon insert

# 42623-0044\_seq listing

<220>  
 <221> misc\_feature  
 <222> (2)..(2)  
 <223> n is a, c, g, or t

<220>  
 <221> misc\_feature  
 <222> (204)..(206)  
 <223> n is a, c, g, or t

<220>  
 <221> misc\_feature  
 <222> (208)..(213)  
 <223> n is a, c, g, or t

<400> 105  
 cncgatccgg gatattgaca agatgtgtat ccaccttaac ttaatgattt ttaccaaagt 60  
 cattagggga ttcacaggt gacgacatcc gtgccataat gtttttgcca ggaggcacca 120  
 acacctgcgc tgaatatattg ctcccagcta ttttcatagc ttcgccataa caaatggctt 180  
 gcctcaaagt ccggaacaat atcnnncnnn nngtactag tcgacgcgtg cca 233

<210> 106  
 <211> 492  
 <212> DNA  
 <213> Artificial

<220>  
 <223> partial gene with transposon insert

<400> 106  
 aaaccaccg gatccgggat catatgacaa gatgtgtatc caccttaact taatgatttt 60  
 taccaaatc attaggggat tcatcagagt tttatctgcg tctggcgcaa cgcattatgc 120  
 atctgttcag tacgcgtacc tcttccggca ttttgtatga agtggatgct cgactgcgtc 180  
 cgtccggggc ggcgggaatg ctggtgacat ccgcagaagc atttgccgat tatcagaaaa 240  
 acgaggcctg gacgtgggaa catcaggcgc tgggtgcgtgc gcgtgtagtg tacggcgatc 300  
 cgcagctcac cgcgcacttt gacgcagtgc gtcgcgagat tatgacgctg ccgcgtgaag 360  
 gtaaaactct gcaaacggaa gtgcgggaaa tgcgcgagaa aatgcgcgct catctcggca 420  
 ataaacatcg cgatcgcttt gatatcaaag ctgatgaagg gggaattacc gatatcgaat 480  
 ttattacca at 492

<210> 107  
 <211> 402  
 <212> DNA  
 <213> Artificial

<220>  
 <223> partial gene with transposon insert



# 42623-0044\_seq listing

<220>  
 <221> misc\_feature  
 <222> (2)..(2)  
 <223> n is a, c, g, or t

<220>  
 <221> misc\_feature  
 <222> (4)..(5)  
 <223> n is a, c, g, or t

<220>  
 <221> misc\_feature  
 <222> (14)..(14)  
 <223> n is a, c, g, or t

<220>  
 <221> misc\_feature  
 <222> (97)..(97)  
 <223> n is a, c, g, or t

<220>  
 <221> misc\_feature  
 <222> (103)..(104)  
 <223> n is a, c, g, or t

<220>  
 <221> misc\_feature  
 <222> (106)..(106)  
 <223> n is a, c, g, or t

<400> 107  
 gncnntctaaa aacnttaccg gatccgggat catatgacaa gatgtgtatc caccttaact 60  
 taatgatttt taccaaaatc attaggggat tcatcanggc cgnnanggtg tggcgctgcc 120  
 cgctgtatgt gccaaaacag ccgagcaccc tgaaacgcct gttgcatctg ggcagttttg 180  
 ccgtcagcag tttctttccg ctgatggcgc aacgtcgcct gaagccggat cgcattattg 240  
 gcgtggtgcc aacgctgttt tgcgcgccgg gaatgcgcct gctggcgaaa ctctctggtg 300  
 cgcgtagcgt gctgcatatt caggattacg aagtggacgc catgctgggg ctgggccttg 360  
 ccggaaaagg caaaggcggc aaagtggcac agctggcaac gg 402

<210> 108  
 <211> 483  
 <212> DNA  
 <213> Artificial

<220>  
 <223> partial gene with transposon insert

<220>  
 <221> misc\_feature  
 <222> (3)..(3)  
 <223> n is a, c, g, or t

<220>  
 <221> misc\_feature

# 42623-0044\_seq listing

<222> (194)..(194)  
<223> n is a, c, g, or t

<220>  
<221> misc\_feature  
<222> (203)..(203)  
<223> n is a, c, g, or t

<220>  
<221> misc\_feature  
<222> (212)..(212)  
<223> n is a, c, g, or t

<220>  
<221> misc\_feature  
<222> (215)..(215)  
<223> n is a, c, g, or t

<220>  
<221> misc\_feature  
<222> (217)..(218)  
<223> n is a, c, g, or t

<220>  
<221> misc\_feature  
<222> (223)..(223)  
<223> n is a, c, g, or t

<220>  
<221> misc\_feature  
<222> (286)..(286)  
<223> n is a, c, g, or t

<400> 108	
cgncgcatc cgggatcata tgacaagatg tgtatccacc ttaacttaat gatttttacc	60
aaaatcatta ggggattcat cagcgcacat ggtcttcacc atatttgatt gtcgatttcc	120
taccagtcgt gtattacgaa caaaatacag aacacgatac cccatactac aaccctataa	180
aaacgttcga tatngttccg gcntgtgctg cncgncnngt ggncctggcga agctatgaaa	240
atagctggga gcaaataattc agcgcaggtg ttggtgcctc ctggcnaaaa cattatggca	300
cggatgtcgt cacccaactc ggctacgggc aacgcattag ttggaatgac gtgattgatg	360
ctggcgcaac gctacgctgg gaaaaacgac cttatgacgg tgacagagaa cacaacttat	420
acgttgaatt cgatatgaca ttcagatttt aaggataaat atgttacgta atggaaataa	480
ata	483

<210> 109  
<211> 455  
<212> DNA  
<213> Artificial

<220>  
<223> partial gene with transposon insert

<220>

42623-0044\_seq listing

```

<221> misc_feature
<222> (4)..(4)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (115)..(115)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (234)..(234)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (238)..(238)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (240)..(240)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (243)..(243)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (265)..(265)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (287)..(287)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (292)..(292)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (296)..(296)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (301)..(301)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (315)..(315)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (323)..(323)
<223> n is a, c, g, or t

```

# 42623-0044\_seq listing

<220>  
 <221> misc\_feature  
 <222> (326)..(326)  
 <223> n is a, c, g, or t

<220>  
 <221> misc\_feature  
 <222> (330)..(330)  
 <223> n is a, c, g, or t

<220>  
 <221> misc\_feature  
 <222> (335)..(335)  
 <223> n is a, c, g, or t

<220>  
 <221> misc\_feature  
 <222> (337)..(337)  
 <223> n is a, c, g, or t

<220>  
 <221> misc\_feature  
 <222> (340)..(341)  
 <223> n is a, c, g, or t

<220>  
 <221> misc\_feature  
 <222> (350)..(350)  
 <223> n is a, c, g, or t

<220>  
 <221> misc\_feature  
 <222> (352)..(352)  
 <223> n is a, c, g, or t

<220>  
 <221> misc\_feature  
 <222> (357)..(359)  
 <223> n is a, c, g, or t

<220>  
 <221> misc\_feature  
 <222> (362)..(362)  
 <223> n is a, c, g, or t

<220>  
 <221> misc\_feature  
 <222> (369)..(369)  
 <223> n is a, c, g, or t

<220>  
 <221> misc\_feature  
 <222> (372)..(372)  
 <223> n is a, c, g, or t

<220>  
 <221> misc\_feature  
 <222> (382)..(382)  
 <223> n is a, c, g, or t

<220>  
 <221> misc\_feature

# 42623-0044\_seq listing

<222> (384)..(384)  
<223> n is a, c, g, or t

<220>  
<221> misc\_feature  
<222> (387)..(387)  
<223> n is a, c, g, or t

<220>  
<221> misc\_feature  
<222> (394)..(394)  
<223> n is a, c, g, or t

<220>  
<221> misc\_feature  
<222> (399)..(399)  
<223> n is a, c, g, or t

<220>  
<221> misc\_feature  
<222> (419)..(419)  
<223> n is a, c, g, or t

<220>  
<221> misc\_feature  
<222> (421)..(421)  
<223> n is a, c, g, or t

<220>  
<221> misc\_feature  
<222> (423)..(423)  
<223> n is a, c, g, or t

<220>  
<221> misc\_feature  
<222> (434)..(435)  
<223> n is a, c, g, or t

<220>  
<221> misc\_feature  
<222> (441)..(441)  
<223> n is a, c, g, or t

<220>  
<221> misc\_feature  
<222> (449)..(449)  
<223> n is a, c, g, or t

<220>  
<221> misc\_feature  
<222> (454)..(454)  
<223> n is a, c, g, or t

<400> 109	
acgncggatc cgggatcata tgacaagatg tgtatccacc ttaacttaat gatttttacc	60
aaaatcatta ggggattcat cagcaccgta cttacgccgc tcattttgat accancgaac	120
ataagcctga gcaactgttgct ctgtaacacc attttttcatt gcccgtaatg gaacgcggtg	180
agagaggcgt tccagttgct aaccaatacg ccagttatca ttaaaatcat atcngccngn	240
ccngtactag tcgacgcgtg gccanaaatt gaaaactggt ttgccanaat tntctngatc	300

# 42623-0044\_seq listing

```
ncctaaaaag ctatnactgg acncgntatn atggntntgn nttatctggn angggggnnc 360
anaaaaaatnc gntgccaatg gntnatncaa ttgnccatna aattaaaaac atcccttang 420
ntnaaagaca aatnnatttt ntaattcang ggcna 455
```

```
<210> 110
<211> 468
<212> DNA
<213> Artificial
```

```
<220>
<223> partial gene with transposon insert
```

```
<220>
<221> misc_feature
<222> (1)..(2)
<223> n is a, c, g, or t
```

```
<220>
<221> misc_feature
<222> (4)..(4)
<223> n is a, c, g, or t
```

```
<220>
<221> misc_feature
<222> (18)..(18)
<223> n is a, c, g, or t
```

```
<220>
<221> misc_feature
<222> (42)..(42)
<223> n is a, c, g, or t
```

```
<220>
<221> misc_feature
<222> (88)..(88)
<223> n is a, c, g, or t
```

```
<220>
<221> misc_feature
<222> (101)..(101)
<223> n is a, c, g, or t
```

```
<220>
<221> misc_feature
<222> (125)..(125)
<223> n is a, c, g, or t
```

```
<220>
<221> misc_feature
<222> (176)..(176)
<223> n is a, c, g, or t
```

```
<220>
<221> misc_feature
<222> (309)..(309)
<223> n is a, c, g, or t
```

```
<220>
```

## 42623-0044\_seq listing

<221> misc\_feature  
<222> (328)..(329)  
<223> n is a, c, g, or t

<220>  
<221> misc\_feature  
<222> (332)..(332)  
<223> n is a, c, g, or t

<220>  
<221> misc\_feature  
<222> (347)..(347)  
<223> n is a, c, g, or t

<220>  
<221> misc\_feature  
<222> (359)..(360)  
<223> n is a, c, g, or t

<220>  
<221> misc\_feature  
<222> (364)..(364)  
<223> n is a, c, g, or t

<220>  
<221> misc\_feature  
<222> (367)..(367)  
<223> n is a, c, g, or t

<220>  
<221> misc\_feature  
<222> (372)..(373)  
<223> n is a, c, g, or t

<220>  
<221> misc\_feature  
<222> (375)..(375)  
<223> n is a, c, g, or t

<220>  
<221> misc\_feature  
<222> (379)..(379)  
<223> n is a, c, g, or t

<220>  
<221> misc\_feature  
<222> (382)..(382)  
<223> n is a, c, g, or t

<220>  
<221> misc\_feature  
<222> (389)..(389)  
<223> n is a, c, g, or t

<220>  
<221> misc\_feature  
<222> (391)..(391)  
<223> n is a, c, g, or t

<220>  
<221> misc\_feature  
<222> (393)..(393)  
<223> n is a, c, g, or t

# 42623-0044\_seq listing

<220>  
 <221> misc\_feature  
 <222> (398)..(398)  
 <223> n is a, c, g, or t

<220>  
 <221> misc\_feature  
 <222> (404)..(405)  
 <223> n is a, c, g, or t

<220>  
 <221> misc\_feature  
 <222> (408)..(409)  
 <223> n is a, c, g, or t

<220>  
 <221> misc\_feature  
 <222> (414)..(414)  
 <223> n is a, c, g, or t

<220>  
 <221> misc\_feature  
 <222> (416)..(416)  
 <223> n is a, c, g, or t

<220>  
 <221> misc\_feature  
 <222> (418)..(418)  
 <223> n is a, c, g, or t

<220>  
 <221> misc\_feature  
 <222> (421)..(421)  
 <223> n is a, c, g, or t

<220>  
 <221> misc\_feature  
 <222> (425)..(425)  
 <223> n is a, c, g, or t

<220>  
 <221> misc\_feature  
 <222> (427)..(427)  
 <223> n is a, c, g, or t

<220>  
 <221> misc\_feature  
 <222> (431)..(431)  
 <223> n is a, c, g, or t

<220>  
 <221> misc\_feature  
 <222> (435)..(435)  
 <223> n is a, c, g, or t

<220>  
 <221> misc\_feature  
 <222> (438)..(438)  
 <223> n is a, c, g, or t

<220>  
 <221> misc\_feature



# 42623-0044\_seq listing

<222> (440)..(440)  
<223> n is a, c, g, or t

<220>  
<221> misc\_feature  
<222> (444)..(445)  
<223> n is a, c, g, or t

<220>  
<221> misc\_feature  
<222> (447)..(447)  
<223> n is a, c, g, or t

<220>  
<221> misc\_feature  
<222> (450)..(452)  
<223> n is a, c, g, or t

<220>  
<221> misc\_feature  
<222> (454)..(455)  
<223> n is a, c, g, or t

<220>  
<221> misc\_feature  
<222> (458)..(458)  
<223> n is a, c, g, or t

<220>  
<221> misc\_feature  
<222> (461)..(462)  
<223> n is a, c, g, or t

<220>  
<221> misc\_feature  
<222> (464)..(465)  
<223> n is a, c, g, or t

<220>  
<221> misc\_feature  
<222> (468)..(468)  
<223> n is a, c, g, or t

<400> 110	
nngnaaacca gccggacntc ccggatccgg gatcatatga cnagatgtgt atccacctta	60
acttaatgat ttttaccaa atcattangg gattcatcag ncagatgcgt tcctgaccct	120
caagnagac ttcattgacgc tggttactgt cggaaaaatc agtgaaagcc cagganacac	180
cgtacttacg ccgctcattt tgataccagc gaacataagc ctgagcactg ttgcctgtaa	240
caccattttt cattgcccgt aatggaacgc ggtgagagag gcgttccagt tgcgaaccaa	300
tacgccagnt atcattaaaa tcatatcnc cngaagagga ctagtcnacg cgtggccann	360
acancncac tnnthaacnt gnggctacna ntntaccngc ccannagnnt tacntnantt	420
ncgcncncct nccantcncn ccnnangtn nncnnaant nnannctn	468

<210> 111  
<211> 313

# 42623-0044\_seq listing

<212> DNA  
 <213> Artificial  
 <220>  
 <223> partial gene with transposon insert

<220>  
 <221> misc\_feature  
 <222> (1)..(2)  
 <223> n is a, c, g, or t

<220>  
 <221> misc\_feature  
 <222> (5)..(5)  
 <223> n is a, c, g, or t

<220>  
 <221> misc\_feature  
 <222> (18)..(18)  
 <223> n is a, c, g, or t

<220>  
 <221> misc\_feature  
 <222> (168)..(168)  
 <223> n is a, c, g, or t

<220>  
 <221> misc\_feature  
 <222> (170)..(172)  
 <223> n is a, c, g, or t

<220>  
 <221> misc\_feature  
 <222> (175)..(177)  
 <223> n is a, c, g, or t

<220>  
 <221> misc\_feature  
 <222> (201)..(201)  
 <223> n is a, c, g, or t

<220>  
 <221> misc\_feature  
 <222> (205)..(205)  
 <223> n is a, c, g, or t

<220>  
 <221> misc\_feature  
 <222> (209)..(209)  
 <223> n is a, c, g, or t

<220>  
 <221> misc\_feature  
 <222> (214)..(217)  
 <223> n is a, c, g, or t

<220>  
 <221> misc\_feature  
 <222> (222)..(222)  
 <223> n is a, c, g, or t

<220>

# 42623-0044\_seq listing

```

<221> misc_feature
<222> (226)..(226)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (228)..(228)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (233)..(233)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (235)..(235)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (238)..(238)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (243)..(243)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (246)..(246)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (252)..(252)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (256)..(256)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (267)..(267)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (269)..(270)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (273)..(273)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (276)..(276)
<223> n is a, c, g, or t

```

# 42623-0044\_seq listing

<220>  
 <221> misc\_feature  
 <222> (280)..(281)  
 <223> n is a, c, g, or t

<220>  
 <221> misc\_feature  
 <222> (288)..(288)  
 <223> n is a, c, g, or t

<220>  
 <221> misc\_feature  
 <222> (296)..(296)  
 <223> n is a, c, g, or t

<220>  
 <221> misc\_feature  
 <222> (303)..(303)  
 <223> n is a, c, g, or t

<220>  
 <221> misc\_feature  
 <222> (305)..(305)  
 <223> n is a, c, g, or t

<220>  
 <221> misc\_feature  
 <222> (308)..(309)  
 <223> n is a, c, g, or t

<220>  
 <221> misc\_feature  
 <222> (312)..(312)  
 <223> n is a, c, g, or t

<400> 111  
 nnaanatacg gttccggntc gggatcatat gacaagatgt gtatccacct taacttaatg 60  
 atttttacca aaatcattag gggattcatc agatggaagc attaaccgcg gcctccgtgg 120  
 cggcgctgac catttatgac atgtgcaaag cggtgcaaaa agatatacncn nncnnngta 180  
 ctagtcgacg cgtggccaaa nactngggnt ctcnnntgc tngctncnaa tcnantgnac 240  
 ccnctnaacc cnttcnagct aaacatntnn atntgnaach nataaacnca ggacgncact 300  
 atngngtnna cnt 313

<210> 112  
 <211> 398  
 <212> DNA  
 <213> Artificial

<220>  
 <223> partial gene with transposon insert

<220>  
 <221> misc\_feature  
 <222> (3)..(4)  
 <223> n is a, c, g, or t

# 42623-0044\_seq listing

<220>  
 <221> misc\_feature  
 <222> (7)..(7)  
 <223> n is a, c, g, or t

<220>  
 <221> misc\_feature  
 <222> (11)..(11)  
 <223> n is a, c, g, or t

<220>  
 <221> misc\_feature  
 <222> (25)..(25)  
 <223> n is a, c, g, or t

<220>  
 <221> misc\_feature  
 <222> (28)..(28)  
 <223> n is a, c, g, or t

<400> 112  
 cgnnganacg nccgaatccg gatantanac aagatgtgta tccccttaac ttaatgattt 60  
 ttacaaaaat cattagggga ttcacaggg ctttagcggg agtctgagcg aaattcgaca 120  
 aaacccggag caatttaaac agtgggccc ctttaaaagt cgtgcgttaa ctgacttcac 180  
 tttagaactt agtgcgcgcg taaaagccat tcgcggtcca catattaaaa ctgcacgaaa 240  
 tatttttgca cttccggtaa tacaacctga aagtgaagcc tggtttgac agaattatgc 300  
 tgatttccta aaaagctatg actggaccgc tattatggct atgccttatc tggaagggtg 360  
 cgcagaaaaa tcggctgacc aatggttaat acaattga 398

<210> 113  
 <211> 300  
 <212> DNA  
 <213> Artificial

<220>  
 <223> partial gene with transposon insert

<220>  
 <221> misc\_feature  
 <222> (1)..(1)  
 <223> n is a, c, g, or t

<400> 113  
 nacggatccg ggatatatga caagatgtgt atccacctta acttaatgat ttttacaaa 60  
 atcattaggg gattcatcag tatctggtgt gcattgatgg cgatgcgtta ttagaccgcg 120  
 atgcggcggc atatattgtg gaaccgatgt tgtacaaccc gcgtgtgggt gccgtaaccg 180  
 gtaatcctcg tattcgaaca cgttctaccc tgggtgggtaa aattcagggtt ggcgagtatt 240  
 cctcaattat tggtttgatc aagcgaaccc agcgtatcta tggaaacgta tttaccgttt 300

# 42623-0044\_seq listing

<210> 114  
<211> 300  
<212> DNA  
<213> Artificial

<220>  
<223> partial gene with transposon insert

<220>  
<221> misc\_feature  
<222> (1)..(1)  
<223> n is a, c, g, or t

<400> 114  
ncgatccggg atcattgaca agatgtgtat ccaccttaac ttaatgattt ttacccaaat 60  
cattagggga ttcattcagta tctggtgtgc attgatggcg atgcgttatt agaccgcgat 120  
gcggcggcat atattgtgga accgatgttg tacaaccgcg gtgtgggtgc cgtaaccggt 180  
aatcctcgta ttcgaacacg ttctaccctg gtgggtaaaa ttcaggttgg cgagtattcc 240  
tcaattattg gtttgatcaa gcgaaccag cgtatctatg gaaacgtatt taccgtttcc 300

<210> 115  
<211> 453  
<212> DNA  
<213> Artificial

<220>  
<223> partial gene with transposon insert

<220>  
<221> misc\_feature  
<222> (5)..(5)  
<223> n is a, c, g, or t

<220>  
<221> misc\_feature  
<222> (128)..(129)  
<223> n is a, c, g, or t

<220>  
<221> misc\_feature  
<222> (154)..(154)  
<223> n is a, c, g, or t

<220>  
<221> misc\_feature  
<222> (159)..(160)  
<223> n is a, c, g, or t

<220>  
<221> misc\_feature  
<222> (164)..(165)  
<223> n is a, c, g, or t

<220>  
<221> misc\_feature  
<222> (178)..(179)

## 42623-0044\_seq listing

<223> n is a, c, g, or t

<220>

<221> misc\_feature

<222> (181)..(181)

<223> n is a, c, g, or t

<220>

<221> misc\_feature

<222> (183)..(183)

<223> n is a, c, g, or t

<220>

<221> misc\_feature

<222> (195)..(195)

<223> n is a, c, g, or t

<220>

<221> misc\_feature

<222> (202)..(202)

<223> n is a, c, g, or t

<220>

<221> misc\_feature

<222> (206)..(206)

<223> n is a, c, g, or t

<220>

<221> misc\_feature

<222> (211)..(211)

<223> n is a, c, g, or t

<220>

<221> misc\_feature

<222> (213)..(213)

<223> n is a, c, g, or t

<220>

<221> misc\_feature

<222> (215)..(215)

<223> n is a, c, g, or t

<220>

<221> misc\_feature

<222> (222)..(222)

<223> n is a, c, g, or t

<220>

<221> misc\_feature

<222> (226)..(226)

<223> n is a, c, g, or t

<220>

<221> misc\_feature

<222> (229)..(230)

<223> n is a, c, g, or t

<220>

<221> misc\_feature

<222> (232)..(235)

<223> n is a, c, g, or t

<220>

# 42623-0044\_seq listing

```

<221> misc_feature
<222> (238)..(238)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (242)..(242)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (249)..(249)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (253)..(253)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (263)..(263)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (266)..(266)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (279)..(279)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (282)..(282)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (292)..(292)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (294)..(294)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (296)..(297)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (300)..(301)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (304)..(304)
<223> n is a, c, g, or t

```



# 42623-0044\_seq listing

<220>  
 <221> misc\_feature  
 <222> (308)..(308)  
 <223> n is a, c, g, or t

<220>  
 <221> misc\_feature  
 <222> (317)..(318)  
 <223> n is a, c, g, or t

<220>  
 <221> misc\_feature  
 <222> (330)..(330)  
 <223> n is a, c, g, or t

<220>  
 <221> misc\_feature  
 <222> (333)..(333)  
 <223> n is a, c, g, or t

<220>  
 <221> misc\_feature  
 <222> (338)..(338)  
 <223> n is a, c, g, or t

<220>  
 <221> misc\_feature  
 <222> (342)..(342)  
 <223> n is a, c, g, or t

<220>  
 <221> misc\_feature  
 <222> (344)..(344)  
 <223> n is a, c, g, or t

<220>  
 <221> misc\_feature  
 <222> (352)..(352)  
 <223> n is a, c, g, or t

<220>  
 <221> misc\_feature  
 <222> (354)..(354)  
 <223> n is a, c, g, or t

<220>  
 <221> misc\_feature  
 <222> (356)..(356)  
 <223> n is a, c, g, or t

<220>  
 <221> misc\_feature  
 <222> (369)..(369)  
 <223> n is a, c, g, or t

<220>  
 <221> misc\_feature  
 <222> (371)..(371)  
 <223> n is a, c, g, or t

<220>  
 <221> misc\_feature

# 42623-0044\_seq listing

<222> (374)..(374)  
<223> n is a, c, g, or t

<220>  
<221> misc\_feature  
<222> (377)..(377)  
<223> n is a, c, g, or t

<220>  
<221> misc\_feature  
<222> (379)..(380)  
<223> n is a, c, g, or t

<220>  
<221> misc\_feature  
<222> (382)..(382)  
<223> n is a, c, g, or t

<220>  
<221> misc\_feature  
<222> (384)..(387)  
<223> n is a, c, g, or t

<220>  
<221> misc\_feature  
<222> (396)..(396)  
<223> n is a, c, g, or t

<220>  
<221> misc\_feature  
<222> (412)..(412)  
<223> n is a, c, g, or t

<220>  
<221> misc\_feature  
<222> (415)..(415)  
<223> n is a, c, g, or t

<220>  
<221> misc\_feature  
<222> (425)..(425)  
<223> n is a, c, g, or t

<220>  
<221> misc\_feature  
<222> (427)..(427)  
<223> n is a, c, g, or t

<220>  
<221> misc\_feature  
<222> (430)..(430)  
<223> n is a, c, g, or t

<220>  
<221> misc\_feature  
<222> (437)..(438)  
<223> n is a, c, g, or t

<220>  
<221> misc\_feature  
<222> (446)..(446)  
<223> n is a, c, g, or t

# 42623-0044\_seq listing

<220>  
 <221> misc\_feature  
 <222> (448)..(448)  
 <223> n is a, c, g, or t

<220>  
 <221> misc\_feature  
 <222> (450)..(452)  
 <223> n is a, c, g, or t

<400> 115  
 aaacntaccg gatccgggat catatgacaa gatgtgtatc caccttaact taatgatttt 60  
 taccaaaatc attaggggat tcatcagcgg cgagcaggcg atttccaccg aggcttatat 120  
 cccccccnnc cgtactagtc gacgcgtggc caantatcnn gatnnccccg cctgtcannc 180  
 nanccccccc tgcgncccct cntccnactc nanctagac cngccnctnn tnnnncanct 240  
 cncggcgcnt gtnccaacct gcnccncccc gtcctgccna cncctctccac gncncnncn 300  
 nttncncgc cctgccnnet ctcccccccn ccnccacnet cngnccctca gncncngtcc 360  
 cgctcggtnc nccnacnncn cncnnnnagc tctcngtta cctcaccgat gntcncccc 420  
 ctcgngngcn caccnncnag cagccnctn nnc 453

<210> 116  
 <211> 268  
 <212> DNA  
 <213> Artificial

<220>  
 <223> partial gene with transposon insert

<220>  
 <221> misc\_feature  
 <222> (6)..(6)  
 <223> n is a, c, g, or t

<220>  
 <221> misc\_feature  
 <222> (89)..(89)  
 <223> n is a, c, g, or t

<220>  
 <221> misc\_feature  
 <222> (104)..(104)  
 <223> n is a, c, g, or t

<220>  
 <221> misc\_feature  
 <222> (107)..(107)  
 <223> n is a, c, g, or t

<220>  
 <221> misc\_feature  
 <222> (109)..(111)  
 <223> n is a, c, g, or t

<220>

## 42623-0044\_seq listing

<221> misc\_feature  
<222> (116)..(116)  
<223> n is a, c, g, or t

<220>  
<221> misc\_feature  
<222> (121)..(121)  
<223> n is a, c, g, or t

<220>  
<221> misc\_feature  
<222> (134)..(134)  
<223> n is a, c, g, or t

<220>  
<221> misc\_feature  
<222> (140)..(140)  
<223> n is a, c, g, or t

<220>  
<221> misc\_feature  
<222> (144)..(145)  
<223> n is a, c, g, or t

<220>  
<221> misc\_feature  
<222> (151)..(151)  
<223> n is a, c, g, or t

<220>  
<221> misc\_feature  
<222> (164)..(164)  
<223> n is a, c, g, or t

<220>  
<221> misc\_feature  
<222> (166)..(168)  
<223> n is a, c, g, or t

<220>  
<221> misc\_feature  
<222> (172)..(174)  
<223> n is a, c, g, or t

<220>  
<221> misc\_feature  
<222> (180)..(181)  
<223> n is a, c, g, or t

<220>  
<221> misc\_feature  
<222> (183)..(184)  
<223> n is a, c, g, or t

<220>  
<221> misc\_feature  
<222> (186)..(186)  
<223> n is a, c, g, or t

<220>  
<221> misc\_feature  
<222> (189)..(191)  
<223> n is a, c, g, or t

# 42623-0044\_seq listing

<220>  
 <221> misc\_feature  
 <222> (194)..(194)  
 <223> n is a, c, g, or t

<220>  
 <221> misc\_feature  
 <222> (196)..(196)  
 <223> n is a, c, g, or t

<220>  
 <221> misc\_feature  
 <222> (206)..(206)  
 <223> n is a, c, g, or t

<220>  
 <221> misc\_feature  
 <222> (208)..(209)  
 <223> n is a, c, g, or t

<220>  
 <221> misc\_feature  
 <222> (211)..(211)  
 <223> n is a, c, g, or t

<220>  
 <221> misc\_feature  
 <222> (213)..(213)  
 <223> n is a, c, g, or t

<220>  
 <221> misc\_feature  
 <222> (218)..(218)  
 <223> n is a, c, g, or t

<220>  
 <221> misc\_feature  
 <222> (221)..(221)  
 <223> n is a, c, g, or t

<220>  
 <221> misc\_feature  
 <222> (223)..(225)  
 <223> n is a, c, g, or t

<220>  
 <221> misc\_feature  
 <222> (228)..(228)  
 <223> n is a, c, g, or t

<220>  
 <221> misc\_feature  
 <222> (235)..(238)  
 <223> n is a, c, g, or t

<220>  
 <221> misc\_feature  
 <222> (243)..(243)  
 <223> n is a, c, g, or t

<220>  
 <221> misc\_feature

# 42623-0044\_seq listing

<222> (245)..(245)  
<223> n is a, c, g, or t

<220>  
<221> misc\_feature  
<222> (248)..(249)  
<223> n is a, c, g, or t

<220>  
<221> misc\_feature  
<222> (251)..(251)  
<223> n is a, c, g, or t

<220>  
<221> misc\_feature  
<222> (253)..(253)  
<223> n is a, c, g, or t

<220>  
<221> misc\_feature  
<222> (258)..(258)  
<223> n is a, c, g, or t

<220>  
<221> misc\_feature  
<222> (260)..(260)  
<223> n is a, c, g, or t

<220>  
<221> misc\_feature  
<222> (264)..(264)  
<223> n is a, c, g, or t

<220>  
<221> misc\_feature  
<222> (267)..(267)  
<223> n is a, c, g, or t

<400> 116	
aacggnccgg atccgggatc atatgacaag atgtgtatcc accttaactt aatgattttt	60
acccaaatca ttaggggatt catcagagnt aagcgtgaca gtgntantnn nctacngcca	120
naggtacaaa caanttcatn catnngccgc ngaagatttc cttntnnnag cnnncagccn	180
ngnntntnn ncantntcct aaccntnnc ncntggtngt nannncangt tcatnnnnca	240
ttnantgnnt ntntcgantn cgcntcnc	268

<210> 117  
<211> 263  
<212> DNA  
<213> Artificial

<220>  
<223> partial gene with transposon insert

<220>  
<221> misc\_feature  
<222> (2)..(2)  
<223> n is a, c, g, or t

# 42623-0044\_seq listing

<220>  
 <221> misc\_feature  
 <222> (110)..(110)  
 <223> n is a, c, g, or t

<220>  
 <221> misc\_feature  
 <222> (118)..(118)  
 <223> n is a, c, g, or t

<220>  
 <221> misc\_feature  
 <222> (144)..(144)  
 <223> n is a, c, g, or t

<220>  
 <221> misc\_feature  
 <222> (173)..(174)  
 <223> n is a, c, g, or t

<220>  
 <221> misc\_feature  
 <222> (183)..(183)  
 <223> n is a, c, g, or t

<220>  
 <221> misc\_feature  
 <222> (210)..(210)  
 <223> n is a, c, g, or t

<220>  
 <221> misc\_feature  
 <222> (212)..(212)  
 <223> n is a, c, g, or t

<220>  
 <221> misc\_feature  
 <222> (214)..(214)  
 <223> n is a, c, g, or t

<220>  
 <221> misc\_feature  
 <222> (219)..(219)  
 <223> n is a, c, g, or t

<220>  
 <221> misc\_feature  
 <222> (243)..(255)  
 <223> n is a, c, g, or t

<220>  
 <221> misc\_feature  
 <222> (257)..(262)  
 <223> n is a, c, g, or t

<400> 117  
 gnaaagcccg ccggacatcc cggatccggg atcatatgac aagatgtgta tccaccttaa 60  
 cttaatgatt tttaacaaaa tcattagggg attcatcaga gccggaagtn aacgcggngc 120  
 tggagaagat gaaaaccttc tcanaagcga ttatttccgg tgagtggaaa ggnnataccg 180

## 42623-0044\_seq listing

gcnaagcaat cactgacgta gtgaatatcn cncnccccng tactagtcga cgcgtggcca 240

cannnnnnnnn nnnnnncnnnn nnc 263

<210> 118  
 <211> 390  
 <212> DNA  
 <213> Artificial

<220>  
 <223> partial gene with transposon insert

<220>  
 <221> misc\_feature  
 <222> (127)..(127)  
 <223> n is a, c, g, or t

<220>  
 <221> misc\_feature  
 <222> (190)..(190)  
 <223> n is a, c, g, or t

<220>  
 <221> misc\_feature  
 <222> (195)..(195)  
 <223> n is a, c, g, or t

<220>  
 <221> misc\_feature  
 <222> (200)..(200)  
 <223> n is a, c, g, or t

<220>  
 <221> misc\_feature  
 <222> (205)..(205)  
 <223> n is a, c, g, or t

<220>  
 <221> misc\_feature  
 <222> (212)..(212)  
 <223> n is a, c, g, or t

<220>  
 <221> misc\_feature  
 <222> (221)..(221)  
 <223> n is a, c, g, or t

<220>  
 <221> misc\_feature  
 <222> (223)..(223)  
 <223> n is a, c, g, or t

<220>  
 <221> misc\_feature  
 <222> (228)..(229)  
 <223> n is a, c, g, or t

<220>  
 <221> misc\_feature  
 <222> (234)..(235)  
 <223> n is a, c, g, or t



# 42623-0044\_seq listing

<220>  
 <221> misc\_feature  
 <222> (240)..(240)  
 <223> n is a, c, g, or t

<220>  
 <221> misc\_feature  
 <222> (245)..(245)  
 <223> n is a, c, g, or t

<220>  
 <221> misc\_feature  
 <222> (247)..(247)  
 <223> n is a, c, g, or t

<220>  
 <221> misc\_feature  
 <222> (249)..(251)  
 <223> n is a, c, g, or t

<220>  
 <221> misc\_feature  
 <222> (256)..(256)  
 <223> n is a, c, g, or t

<220>  
 <221> misc\_feature  
 <222> (258)..(258)  
 <223> n is a, c, g, or t

<220>  
 <221> misc\_feature  
 <222> (260)..(260)  
 <223> n is a, c, g, or t

<220>  
 <221> misc\_feature  
 <222> (263)..(263)  
 <223> n is a, c, g, or t

<220>  
 <221> misc\_feature  
 <222> (265)..(265)  
 <223> n is a, c, g, or t

<220>  
 <221> misc\_feature  
 <222> (268)..(268)  
 <223> n is a, c, g, or t

<220>  
 <221> misc\_feature  
 <222> (270)..(273)  
 <223> n is a, c, g, or t

<220>  
 <221> misc\_feature  
 <222> (275)..(275)  
 <223> n is a, c, g, or t

<220>  
 <221> misc\_feature

## 42623-0044\_seq listing

<222> (277)..(277)  
<223> n is a, c, g, or t

<220>  
<221> misc\_feature  
<222> (280)..(280)  
<223> n is a, c, g, or t

<220>  
<221> misc\_feature  
<222> (287)..(288)  
<223> n is a, c, g, or t

<220>  
<221> misc\_feature  
<222> (293)..(294)  
<223> n is a, c, g, or t

<220>  
<221> misc\_feature  
<222> (297)..(299)  
<223> n is a, c, g, or t

<220>  
<221> misc\_feature  
<222> (302)..(302)  
<223> n is a, c, g, or t

<220>  
<221> misc\_feature  
<222> (304)..(307)  
<223> n is a, c, g, or t

<220>  
<221> misc\_feature  
<222> (316)..(318)  
<223> n is a, c, g, or t

<220>  
<221> misc\_feature  
<222> (321)..(323)  
<223> n is a, c, g, or t

<220>  
<221> misc\_feature  
<222> (327)..(327)  
<223> n is a, c, g, or t

<220>  
<221> misc\_feature  
<222> (329)..(329)  
<223> n is a, c, g, or t

<220>  
<221> misc\_feature  
<222> (332)..(333)  
<223> n is a, c, g, or t

<220>  
<221> misc\_feature  
<222> (337)..(337)  
<223> n is a, c, g, or t

# 42623-0044\_seq listing

```

<220>
<221> misc_feature
<222> (342)..(342)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (344)..(344)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (348)..(349)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (352)..(352)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (355)..(356)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (358)..(358)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (362)..(363)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (368)..(370)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (374)..(375)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (378)..(378)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (380)..(380)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (382)..(383)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (387)..(388)

```

# 42623-0044\_seq listing

<223> n is a, c, g, or t

<400> 118

acgaccggat ccgggatcat atgacaagat gtgtatccac cttaacttaa tgatTTTTac	60
caaaatcatt aggggattca tcagtgtctg ccgccttctt tggcactgcg gaaggtaaac	120
agcagcngtt tttctggcat ggactcacgg agaatttttg ctgccgccat gacagactcc	180
acattggagn ggtangcatn ctggncacac cncattcca nantatcnc tttnctgcn	240
actantnann nctcgnantn ttnctcncn nnnncncan ttcctcnc cc ttnnacnnnc	300
gngnnnnntg ttgaannntt nnnacancnc annttcnccc cncntctnnt anantngncc	360
cnngcctnnn agtnntantn cnntttnttc	390

<210> 119

<211> 392

<212> DNA

<213> Artificial

<220>

<223> partial gene with transposon insert

<220>

<221> misc\_feature

<222> (84)..(84)

<223> n is a, c, g, or t

<400> 119

cgtaccggat ccgggatcat atgacaagat gtgtatccac cttaacttaa tgatTTTTac	60
caaaatcatt aggggattca tcangggccc ggtaccggtg gctgatattt ccgaacgtca	120
gggaatttcc ctttcttctc tggaacaact gttttcccggt ctgcgtaaaa atggtctggt	180
ttccagcgta cgtggaccag gcggtgggta tctgttaggc aaagatgccg gcagcatcgc	240
cgttggcgaa gtaattagcg ccgttgacga atctgtagat gccaccggtt gtcagggtaa	300
aggcggctgc cagggcgggc ataaatgcct gaccacgcg ctgtggcggtg atttgagcga	360
ccgtctcacc ggttttctca acaacattac tt	392

<210> 120

<211> 451

<212> DNA

<213> Artificial

<220>

<223> partial gene with transposon insert

<220>

<221> misc\_feature

<222> (3)..(3)

<223> n is a, c, g, or t

<400> 120

# 42623-0044\_seq listing

```

cgncgcggatc cgggatcata tgacaagatg tgtatccacc ttaacttaat gatttttacc      60
aaaaatcatta ggggattcat cagggccttta gcgggagtcg gagcgaaatt cgacaaaacc      120
cggagcaatt taaacagtgg gcccgcttta aaagtcgtgc gttaactgac ttcactttag      180
aacttagtgc gcgcgtaaaa gccattcgcg gtccacatat taaaactgca cgaaatattt      240
ttgcacttcc ggtaatacaa cctgaaagtg aagcctgggt tgcacagaat tatgctgatt      300
tcctaaaaag ctatgactgg accgctatta tggctatgcc ttatctggaa ggtgtcgcag      360
aaaaatcggc tgaccaatgg ttaatacaat tgaccaatca aattaataaac atccctcagg      420
ctaaagacaa atctatttta gaattacagg c                                     451

```

```

<210> 121
<211> 300
<212> DNA
<213> Artificial

```

```

<220>
<223> partial gene with transposon insert

```

```

<220>
<221> misc_feature
<222> (1)..(1)
<223> n is a, c, g, or t

```

```

<220>
<221> misc_feature
<222> (8)..(8)
<223> n is a, c, g, or t

```

```

<220>
<221> misc_feature
<222> (270)..(271)
<223> n is a, c, g, or t

```

```

<220>
<221> misc_feature
<222> (273)..(276)
<223> n is a, c, g, or t

```

```

<220>
<221> misc_feature
<222> (300)..(300)
<223> n is a, c, g, or t

```

```

<400> 121
ncaacgtncc ggatccggga tcatatgaca agatgtgtat ccccttaact taatgatttt      60
taccaaaatc attaggggat tcatcagggt tatgctgact taattgctcc agcagcattt      120
cgtgggtgga ttcgaagcag cgaagatgaa tgggctcgcc ttctaccact gcggcggttaa      180
gtacgctact gaccaggcgt ttggaaagtg catcagccac gccaacgtca aacaataaat      240
tggattcttt gcgatagttc acaatatccn ncnnnnccgt actagtcgac gcgtggccan      300

```

# 42623-0044\_seq listing

<210> 122  
<211> 393  
<212> DNA  
<213> Artificial

<220>  
<223> partial gene with transposon insert

<220>  
<221> misc\_feature  
<222> (5)..(5)  
<223> n is a, c, g, or t

<220>  
<221> misc\_feature  
<222> (121)..(121)  
<223> n is a, c, g, or t

<220>  
<221> misc\_feature  
<222> (139)..(139)  
<223> n is a, c, g, or t

<220>  
<221> misc\_feature  
<222> (149)..(149)  
<223> n is a, c, g, or t

<220>  
<221> misc\_feature  
<222> (223)..(223)  
<223> n is a, c, g, or t

<220>  
<221> misc\_feature  
<222> (262)..(262)  
<223> n is a, c, g, or t

<220>  
<221> misc\_feature  
<222> (264)..(267)  
<223> n is a, c, g, or t

<220>  
<221> misc\_feature  
<222> (270)..(271)  
<223> n is a, c, g, or t

<220>  
<221> misc\_feature  
<222> (273)..(273)  
<223> n is a, c, g, or t

<220>  
<221> misc\_feature  
<222> (293)..(293)  
<223> n is a, c, g, or t

<220>  
<221> misc\_feature  
<222> (298)..(299)  
<223> n is a, c, g, or t

# 42623-0044\_seq listing

```

<220>
<221> misc_feature
<222> (304)..(304)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (307)..(309)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (313)..(316)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (323)..(324)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (336)..(336)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (347)..(347)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (356)..(358)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (364)..(365)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (367)..(367)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (369)..(370)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (374)..(375)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (377)..(378)
<223> n is a, c, g, or t

<220>
<221> misc_feature

```

# 42623-0044\_seq listing

<222> (382)..(383)  
<223> n is a, c, g, or t

<220>  
<221> misc\_feature  
<222> (385)..(385)  
<223> n is a, c, g, or t

<220>  
<221> misc\_feature  
<222> (393)..(393)  
<223> n is a, c, g, or t

<400> 122  
aaacncaccg gatccgggat catatgacaa gatgtgtatc caccttaact taatgatttt 60  
taccaaaaatc attaggggat tcatcagagt taagtgtgac aagtggagtt aagtatgcca 120  
naggtacaaa cagatcatnc agagacggng gagttaagca aaccacagct acagcatggt 180  
cgatctcaac ttattaaccg ttttcgatgc cgtgatgcag gancaaaaca ttactcgtgc 240  
cgctcatgtt ctgggaatat cncnnnngcn ngnactagtt cgacgcgtgg ccncatanna 300  
tgtntcnnnt tcnnnnctct tcnnnttgctt cccttncccc tcttcngcc ccccanncg 360  
tctnntntnn atcnnngnct tnnctacga ctn 393

<210> 123  
<211> 331  
<212> DNA  
<213> Artificial

<220>  
<223> partial gene with transposon insert

<220>  
<221> misc\_feature  
<222> (7)..(7)  
<223> n is a, c, g, or t

<220>  
<221> misc\_feature  
<222> (9)..(9)  
<223> n is a, c, g, or t

<220>  
<221> misc\_feature  
<222> (16)..(16)  
<223> n is a, c, g, or t

<220>  
<221> misc\_feature  
<222> (33)..(33)  
<223> n is a, c, g, or t

<220>  
<221> misc\_feature  
<222> (60)..(60)  
<223> n is a, c, g, or t



# 42623-0044\_seq listing

```

<220>
<221> misc_feature
<222> (69)..(69)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (88)..(88)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (173)..(173)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (193)..(193)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (203)..(203)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (236)..(236)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (244)..(244)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (265)..(266)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (269)..(270)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (275)..(275)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (282)..(282)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (284)..(284)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (295)..(296)

```

# 42623-0044\_seq listing

<223> n is a, c, g, or t

<220>

<221> misc\_feature

<222> (298)..(298)

<223> n is a, c, g, or t

<220>

<221> misc\_feature

<222> (300)..(301)

<223> n is a, c, g, or t

<220>

<221> misc\_feature

<222> (304)..(306)

<223> n is a, c, g, or t

<220>

<221> misc\_feature

<222> (309)..(309)

<223> n is a, c, g, or t

<220>

<221> misc\_feature

<222> (311)..(311)

<223> n is a, c, g, or t

<220>

<221> misc\_feature

<222> (318)..(318)

<223> n is a, c, g, or t

<220>

<221> misc\_feature

<222> (320)..(320)

<223> n is a, c, g, or t

<220>

<221> misc\_feature

<222> (326)..(328)

<223> n is a, c, g, or t

<220>

<221> misc\_feature

<222> (331)..(331)

<223> n is a, c, g, or t

<400> 123

aaaccntng gatccngcat catatgacaa gangttgtat ccaccttaac ttaatgattn 60

ttaccaaant cattagggga ttcatcanag ttaagtgtga cagtggagtt aagtatgcca 120

gaggtacaaa cagatcatcc agagacggtg gagttaagca aaccacagct acngcatggt 180

cgatctcaac ttnttaaccg ttntcgatgc cgtgatgcag gagcaaaaca ttactncgtg 240

ccgntcatgt tctgggaata tcccnnggnn acgtntctagt cnangcgtgg ccaanngntn 300

nggnnnctna ntcacagnan ctttannngt n 331

<210> 124

<211> 298

# 42623-0044\_seq listing

<212> DNA  
<213> Artificial

<220>  
<223> partial gene with transposon insert

<220>  
<221> misc\_feature  
<222> (4)..(4)  
<223> n is a, c, g, or t

<220>  
<221> misc\_feature  
<222> (13)..(13)  
<223> n is a, c, g, or t

<220>  
<221> misc\_feature  
<222> (251)..(251)  
<223> n is a, c, g, or t

<220>  
<221> misc\_feature  
<222> (254)..(254)  
<223> n is a, c, g, or t

<220>  
<221> misc\_feature  
<222> (276)..(276)  
<223> n is a, c, g, or t

<220>  
<221> misc\_feature  
<222> (280)..(280)  
<223> n is a, c, g, or t

<220>  
<221> misc\_feature  
<222> (283)..(286)  
<223> n is a, c, g, or t

<220>  
<221> misc\_feature  
<222> (291)..(291)  
<223> n is a, c, g, or t

<220>  
<221> misc\_feature  
<222> (293)..(293)  
<223> n is a, c, g, or t

<220>  
<221> misc\_feature  
<222> (295)..(296)  
<223> n is a, c, g, or t

<400> 124  
agcncgccgg acntcccgga tcgggatcat atgacaagat gtgtatccac cttacttaa 60  
tgatttttac caaatcatt aggggattca tcagtcggta gtttagcaga aattaatattc 120  
gcttacttta accaccgcag cacaattagc taattttacg gatgcagaac tcacgctggc 180

# 42623-0044\_seq listing

```

gggacgtttt tattgcgta gggttgacat ccgtttttgt atccagtaac tctaaaagca    240
tatcgccccc nccngtacta gtcgacgcgt ggccanaacn cgnnnntcca ntntnncc    298

```

```

<210> 125
<211> 411
<212> DNA
<213> Artificial

```

```

<220>
<223> partial gene with transposon insert

```

```

<220>
<221> misc_feature
<222> (2)..(2)
<223> n is a, c, g, or t

```

```

<220>
<221> misc_feature
<222> (5)..(5)
<223> n is a, c, g, or t

```

```

<220>
<221> misc_feature
<222> (7)..(7)
<223> n is a, c, g, or t

```

```

<220>
<221> misc_feature
<222> (13)..(13)
<223> n is a, c, g, or t

```

```

<220>
<221> misc_feature
<222> (105)..(105)
<223> n is a, c, g, or t

```

```

<220>
<221> misc_feature
<222> (108)..(108)
<223> n is a, c, g, or t

```

```

<220>
<221> misc_feature
<222> (111)..(112)
<223> n is a, c, g, or t

```

```

<220>
<221> misc_feature
<222> (117)..(118)
<223> n is a, c, g, or t

```

```

<220>
<221> misc_feature
<222> (126)..(126)
<223> n is a, c, g, or t

```

```

<220>
<221> misc_feature
<222> (130)..(130)

```

# 42623-0044\_seq listing

```

<223> n is a, c, g, or t
<220>
<221> misc_feature
<222> (134)..(134)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (136)..(136)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (142)..(142)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (144)..(144)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (148)..(150)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (159)..(159)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (163)..(163)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (166)..(166)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (187)..(187)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (195)..(195)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (227)..(227)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (318)..(318)
<223> n is a, c, g, or t
<220>

```

# 42623-0044\_seq listing

<221> misc\_feature  
<222> (377)..(379)  
<223> n is a, c, g, or t

<220>  
<221> misc\_feature  
<222> (383)..(383)  
<223> n is a, c, g, or t

<220>  
<221> misc\_feature  
<222> (386)..(386)  
<223> n is a, c, g, or t

<220>  
<221> misc\_feature  
<222> (392)..(392)  
<223> n is a, c, g, or t

<220>  
<221> misc\_feature  
<222> (394)..(394)  
<223> n is a, c, g, or t

<220>  
<221> misc\_feature  
<222> (403)..(403)  
<223> n is a, c, g, or t

<400> 125  
gnaangnaaa acncgccgga catcccggat ccgggatcat atgacaagat gtgtatccac 60  
cttaacttaa tgatttttac caaaatcatt aggggattca tcagnacngc nnattgnncc 120  
cacggnnggan taantngccc cngnttgenn tctcgctgnt aanganaaat aacgtcttta 180  
taacgancgc gagthaataa cgcgccaaga tgatcaacct gaatacnctg gtactgggca 240  
gtgcggtctg gggtatcgtg ccacagaatt tctaattgcag cgtattgggc gagggcgcgga 300  
tcggcaatgg cataacgntc actttcactg cgcgtaggca taaacgacag tctgaccagt 360  
tcggcatgaa tatcagennnt tgntgnacta gncnacgcgt ggncaaaaca t 411

<210> 126  
<211> 388  
<212> DNA  
<213> Artificial

<220>  
<223> partial gene with transposon insert

<220>  
<221> misc\_feature  
<222> (3)..(3)  
<223> n is a, c, g, or t

<220>  
<221> misc\_feature  
<222> (175)..(175)  
<223> n is a, c, g, or t

# 42623-0044\_seq listing

<220>  
 <221> misc\_feature  
 <222> (178)..(178)  
 <223> n is a, c, g, or t

<220>  
 <221> misc\_feature  
 <222> (180)..(180)  
 <223> n is a, c, g, or t

<220>  
 <221> misc\_feature  
 <222> (185)..(185)  
 <223> n is a, c, g, or t

<220>  
 <221> misc\_feature  
 <222> (188)..(188)  
 <223> n is a, c, g, or t

<220>  
 <221> misc\_feature  
 <222> (192)..(192)  
 <223> n is a, c, g, or t

<220>  
 <221> misc\_feature  
 <222> (276)..(276)  
 <223> n is a, c, g, or t

<220>  
 <221> misc\_feature  
 <222> (307)..(307)  
 <223> n is a, c, g, or t

<220>  
 <221> misc\_feature  
 <222> (310)..(310)  
 <223> n is a, c, g, or t

<220>  
 <221> misc\_feature  
 <222> (312)..(312)  
 <223> n is a, c, g, or t

<220>  
 <221> misc\_feature  
 <222> (315)..(316)  
 <223> n is a, c, g, or t

<220>  
 <221> misc\_feature  
 <222> (318)..(318)  
 <223> n is a, c, g, or t

<220>  
 <221> misc\_feature  
 <222> (326)..(326)  
 <223> n is a, c, g, or t

<220>  
 <221> misc\_feature

## 42623-0044\_seq listing

<222> (328)..(328)  
<223> n is a, c, g, or t

<220>  
<221> misc\_feature  
<222> (330)..(330)  
<223> n is a, c, g, or t

<220>  
<221> misc\_feature  
<222> (332)..(333)  
<223> n is a, c, g, or t

<220>  
<221> misc\_feature  
<222> (337)..(337)  
<223> n is a, c, g, or t

<220>  
<221> misc\_feature  
<222> (339)..(339)  
<223> n is a, c, g, or t

<220>  
<221> misc\_feature  
<222> (342)..(342)  
<223> n is a, c, g, or t

<220>  
<221> misc\_feature  
<222> (345)..(345)  
<223> n is a, c, g, or t

<220>  
<221> misc\_feature  
<222> (352)..(352)  
<223> n is a, c, g, or t

<220>  
<221> misc\_feature  
<222> (354)..(354)  
<223> n is a, c, g, or t

<220>  
<221> misc\_feature  
<222> (358)..(358)  
<223> n is a, c, g, or t

<220>  
<221> misc\_feature  
<222> (360)..(361)  
<223> n is a, c, g, or t

<220>  
<221> misc\_feature  
<222> (363)..(364)  
<223> n is a, c, g, or t

<220>  
<221> misc\_feature  
<222> (371)..(372)  
<223> n is a, c, g, or t



# 42623-0044\_seq listing

<220>  
 <221> misc\_feature  
 <222> (378)..(379)  
 <223> n is a, c, g, or t

<220>  
 <221> misc\_feature  
 <222> (384)..(384)  
 <223> n is a, c, g, or t

<220>  
 <221> misc\_feature  
 <222> (387)..(387)  
 <223> n is a, c, g, or t

<400> 126  
 cgncggatc cgggatcata tgacaagatg tgtatccacc ttaacttaat gatttttacc 60  
 aaaatcatta ggggattcat cagagcttaa taccggcatc cacgcataga tgtttacacc 120  
 tgagcgggta cgtaattgcc aggcaacccg actaaaaata tctgctttca ttggncn nan 180  
 acaancgngg anccagacct ctttgaccag cccatcacca tcgggatcag caaatgcctg 240  
 caaatacacg gttgatattt gcatatcttt ccccnccgta ctagtcgacg cgtggccaca 300  
 ttactntnan tntannantg gatccnntn annccgntnt anctngcctt gnangggngn 360  
 nannattatc nnctgccnnc gacnaant 388

<210> 127  
 <211> 410  
 <212> DNA  
 <213> Artificial

<220>  
 <223> partial gene with transposon insert

<220>  
 <221> misc\_feature  
 <222> (4)..(5)  
 <223> n is a, c, g, or t

<220>  
 <221> misc\_feature  
 <222> (17)..(17)  
 <223> n is a, c, g, or t

<220>  
 <221> misc\_feature  
 <222> (317)..(317)  
 <223> n is a, c, g, or t

<220>  
 <221> misc\_feature  
 <222> (339)..(339)  
 <223> n is a, c, g, or t

<220>  
 <221> misc\_feature  
 <222> (343)..(343)

# 42623-0044\_seq listing

<223> n is a, c, g, or t

<220>

<221> misc\_feature

<222> (356)..(356)

<223> n is a, c, g, or t

<220>

<221> misc\_feature

<222> (360)..(360)

<223> n is a, c, g, or t

<220>

<221> misc\_feature

<222> (362)..(362)

<223> n is a, c, g, or t

<220>

<221> misc\_feature

<222> (367)..(367)

<223> n is a, c, g, or t

<220>

<221> misc\_feature

<222> (370)..(370)

<223> n is a, c, g, or t

<220>

<221> misc\_feature

<222> (380)..(381)

<223> n is a, c, g, or t

<220>

<221> misc\_feature

<222> (383)..(385)

<223> n is a, c, g, or t

<220>

<221> misc\_feature

<222> (389)..(389)

<223> n is a, c, g, or t

<220>

<221> misc\_feature

<222> (399)..(399)

<223> n is a, c, g, or t

<220>

<221> misc\_feature

<222> (410)..(410)

<223> n is a, c, g, or t

<400> 127

tttnngaaac acgccgnaca tcccggatcc gggatcatat gacaagatgt gtatccacct 60

taacttaatg atttttacca aaaatcatta ggggattcat cagtggatta tgcggttgat 120

aaaaaagcga tcgatacagc tacgcgtcag acactgctcg gcaatagcct ggtcgttgta 180

gcaccgaaag ccagcgtgca gaaagatttc accatcgaca gcaaaaccaa ctggacttca 240

ctgctgaatg gcggctgcct ggcggttggc gatccggaac atgttcccgc tggcatttat 300

# 42623-0044\_seq listing

gcaaaagaag cactgcnaaa actggg'gcga tgggatacnc tcnctccgaa aatggncnccn 360  
cntaagntgn tcctaggggn ncnncgcng gtcaccacnt aatcgaaccn 410

<210> 128  
<211> 305  
<212> DNA  
<213> Artificial

<220>  
<223> partial gene with transposon insert

<220>  
<221> misc\_feature  
<222> (11)..(12)  
<223> n is a, c, g, or t

<220>  
<221> misc\_feature  
<222> (103)..(103)  
<223> n is a, c, g, or t

<220>  
<221> misc\_feature  
<222> (107)..(107)  
<223> n is a, c, g, or t

<220>  
<221> misc\_feature  
<222> (159)..(159)  
<223> n is a, c, g, or t

<220>  
<221> misc\_feature  
<222> (204)..(204)  
<223> n is a, c, g, or t

<220>  
<221> misc\_feature  
<222> (211)..(211)  
<223> n is a, c, g, or t

<220>  
<221> misc\_feature  
<222> (213)..(216)  
<223> n is a, c, g, or t

<220>  
<221> misc\_feature  
<222> (218)..(218)  
<223> n is a, c, g, or t

<220>  
<221> misc\_feature  
<222> (226)..(226)  
<223> n is a, c, g, or t

<220>  
<221> misc\_feature  
<222> (239)..(239)  
<223> n is a, c, g, or t

# 42623-0044\_seq listing

<220>  
 <221> misc\_feature  
 <222> (242)..(242)  
 <223> n is a, c, g, or t

<220>  
 <221> misc\_feature  
 <222> (246)..(248)  
 <223> n is a, c, g, or t

<220>  
 <221> misc\_feature  
 <222> (254)..(254)  
 <223> n is a, c, g, or t

<220>  
 <221> misc\_feature  
 <222> (257)..(257)  
 <223> n is a, c, g, or t

<220>  
 <221> misc\_feature  
 <222> (263)..(263)  
 <223> n is a, c, g, or t

<220>  
 <221> misc\_feature  
 <222> (265)..(265)  
 <223> n is a, c, g, or t

<220>  
 <221> misc\_feature  
 <222> (271)..(273)  
 <223> n is a, c, g, or t

<220>  
 <221> misc\_feature  
 <222> (278)..(279)  
 <223> n is a, c, g, or t

<220>  
 <221> misc\_feature  
 <222> (281)..(281)  
 <223> n is a, c, g, or t

<220>  
 <221> misc\_feature  
 <222> (284)..(285)  
 <223> n is a, c, g, or t

<220>  
 <221> misc\_feature  
 <222> (287)..(287)  
 <223> n is a, c, g, or t

<220>  
 <221> misc\_feature  
 <222> (287)..(287)  
 <223> n is a, c, g, or t

<220>  
 <221> misc\_feature

# 42623-0044\_seq listing

<222> (290)..(290)  
<223> n is a, c, g, or t

<220>  
<221> misc\_feature  
<222> (293)..(293)  
<223> n is a, c, g, or t

<220>  
<221> misc\_feature  
<222> (298)..(298)  
<223> n is a, c, g, or t

<220>  
<221> misc\_feature  
<222> (302)..(305)  
<223> n is a, c, g, or t

<400> 128  
gcaaaaacga nncggccaag gatcatatga caagatgtgt atccacctta acttaatgat 60  
ttttaccaaaa aatcattagg ggattcatca ggaaagggca gcnttancgc cggcatgaat 120  
accgatgaca ttctcacctt cgccattaac aaaaatcanc gccacacctg ttgattcgcc 180  
tttgatctcg ctgaccggag taanatcccc ntnnnnnagc tagtcnaccg gtggccatna 240  
anttcnnncg accntangac ccnantcctg nnttaannc ncgnntnccn tanttgcnc 300  
annnn 305

<210> 129  
<211> 450  
<212> DNA  
<213> Artificial

<220>  
<223> partial gene with transposon insert

<220>  
<221> misc\_feature  
<222> (5)..(5)  
<223> n is a, c, g, or t

<220>  
<221> misc\_feature  
<222> (9)..(9)  
<223> n is a, c, g, or t

<220>  
<221> misc\_feature  
<222> (15)..(15)  
<223> n is a, c, g, or t

<220>  
<221> misc\_feature  
<222> (19)..(19)  
<223> n is a, c, g, or t

<220>  
<221> misc\_feature

# 42623-0044\_seq listing

```

<222> (23)..(24)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (30)..(30)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (32)..(32)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (37)..(37)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (44)..(44)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (50)..(50)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (52)..(52)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (58)..(58)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (60)..(60)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (73)..(74)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (81)..(81)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (88)..(88)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (97)..(97)
<223> n is a, c, g, or t

```

# 42623-0044\_seq listing

<220>  
 <221> misc\_feature  
 <222> (101)..(102)  
 <223> n is a, c, g, or t

<220>  
 <221> misc\_feature  
 <222> (125)..(125)  
 <223> n is a, c, g, or t

<220>  
 <221> misc\_feature  
 <222> (132)..(132)  
 <223> n is a, c, g, or t

<220>  
 <221> misc\_feature  
 <222> (147)..(147)  
 <223> n is a, c, g, or t

<220>  
 <221> misc\_feature  
 <222> (158)..(158)  
 <223> n is a, c, g, or t

<220>  
 <221> misc\_feature  
 <222> (184)..(184)  
 <223> n is a, c, g, or t

<220>  
 <221> misc\_feature  
 <222> (203)..(203)  
 <223> n is a, c, g, or t

<220>  
 <221> misc\_feature  
 <222> (239)..(239)  
 <223> n is a, c, g, or t

<220>  
 <221> misc\_feature  
 <222> (243)..(243)  
 <223> n is a, c, g, or t

<220>  
 <221> misc\_feature  
 <222> (265)..(265)  
 <223> n is a, c, g, or t

<220>  
 <221> misc\_feature  
 <222> (267)..(267)  
 <223> n is a, c, g, or t

<220>  
 <221> misc\_feature  
 <222> (272)..(273)  
 <223> n is a, c, g, or t

<220>  
 <221> misc\_feature  
 <222> (281)..(281)

# 42623-0044\_seq listing

<223> n is a, c, g, or t

<220>

<221> misc\_feature

<222> (290)..(290)

<223> n is a, c, g, or t

<220>

<221> misc\_feature

<222> (299)..(299)

<223> n is a, c, g, or t

<220>

<221> misc\_feature

<222> (309)..(310)

<223> n is a, c, g, or t

<220>

<221> misc\_feature

<222> (314)..(315)

<223> n is a, c, g, or t

<220>

<221> misc\_feature

<222> (318)..(319)

<223> n is a, c, g, or t

<220>

<221> misc\_feature

<222> (324)..(324)

<223> n is a, c, g, or t

<220>

<221> misc\_feature

<222> (328)..(328)

<223> n is a, c, g, or t

<220>

<221> misc\_feature

<222> (330)..(330)

<223> n is a, c, g, or t

<220>

<221> misc\_feature

<222> (334)..(334)

<223> n is a, c, g, or t

<220>

<221> misc\_feature

<222> (336)..(336)

<223> n is a, c, g, or t

<220>

<221> misc\_feature

<222> (342)..(342)

<223> n is a, c, g, or t

<220>

<221> misc\_feature

<222> (348)..(348)

<223> n is a, c, g, or t

<220>



# 42623-0044\_seq listing

<221> misc\_feature  
<222> (352)..(352)  
<223> n is a, c, g, or t

<220>  
<221> misc\_feature  
<222> (354)..(354)  
<223> n is a, c, g, or t

<220>  
<221> misc\_feature  
<222> (358)..(358)  
<223> n is a, c, g, or t

<220>  
<221> misc\_feature  
<222> (360)..(360)  
<223> n is a, c, g, or t

<220>  
<221> misc\_feature  
<222> (365)..(365)  
<223> n is a, c, g, or t

<220>  
<221> misc\_feature  
<222> (373)..(374)  
<223> n is a, c, g, or t

<220>  
<221> misc\_feature  
<222> (404)..(404)  
<223> n is a, c, g, or t

<220>  
<221> misc\_feature  
<222> (419)..(421)  
<223> n is a, c, g, or t

<220>  
<221> misc\_feature  
<222> (428)..(428)  
<223> n is a, c, g, or t

<220>  
<221> misc\_feature  
<222> (443)..(444)  
<223> n is a, c, g, or t

<220>  
<221> misc\_feature  
<222> (449)..(449)  
<223> n is a, c, g, or t

<400> 129	
cacancgna catcngcgnt atnctactn anaatgncgt gaantattcn cnactgcntn	60
acacttacac cgnntctcat nccggtangc accacanaaa nnttgaatat gaggcataa	120
tggtngttgg angccgggta acagccntca ttatggnggt tggcctcaac acgattttcc	180
tcnntttaaa aaactcacgc cgntaccctg taacctcgca ccatactggc agggcagcng	240

# 42623-0044\_seq listing

acngattcgc ctgcgcatga aatgnanaaa c nntggggat ncaccagggn gtaaactctng	300
ccagcgatnn ctgnnttntt cttntganan gatncngaaa angggggntg cncncgtntn	360
ccggnaaaca tcnntaataa aactggggcc aaagtaaaac gtcnggatat ccaatccann	420
ngtactantc gacgcgtggc cannactgnc	450

<210> 130  
 <211> 291  
 <212> DNA  
 <213> Artificial

<220>  
 <223> partial gene with transposon insert

<220>  
 <221> misc\_feature  
 <222> (1)..(2)  
 <223> n is a, c, g, or t

<220>  
 <221> misc\_feature  
 <222> (8)..(8)  
 <223> n is a, c, g, or t

<220>  
 <221> misc\_feature  
 <222> (12)..(13)  
 <223> n is a, c, g, or t

<220>  
 <221> misc\_feature  
 <222> (86)..(86)  
 <223> n is a, c, g, or t

<220>  
 <221> misc\_feature  
 <222> (259)..(259)  
 <223> n is a, c, g, or t

<220>  
 <221> misc\_feature  
 <222> (264)..(264)  
 <223> n is a, c, g, or t

<220>  
 <221> misc\_feature  
 <222> (267)..(268)  
 <223> n is a, c, g, or t

<220>  
 <221> misc\_feature  
 <222> (290)..(291)  
 <223> n is a, c, g, or t

<400> 130 nnacgctncg gnnccgggatc atatgacaag atgtgtatcc accttaactt aatgattttt	60
accaaaatca ttaggggatt catcanagtt aagtgtgaca gtggagttaa gtatgccaga	120

# 42623-0044\_seq listing

```

ggtacaaaca gatcatccag agacggcgga gttaagcaaa ccacagtcta cgcattggtcg      180
atctcaacta ttaaccgttt tcgatgccgt gatgcaggag caaaacatta ctcgtgccgc      240
tcattgttctg ggaatatcnc cccnctnngt actagtcgac gcgtggccan n              291

```

```

<210> 131
<211> 203
<212> DNA
<213> Artificial

```

```

<220>
<223> partial gene with transposon insert

```

```

<220>
<221> misc_feature
<222> (3)..(3)
<223> n is a, c, g, or t

```

```

<220>
<221> misc_feature
<222> (5)..(5)
<223> n is a, c, g, or t

```

```

<220>
<221> misc_feature
<222> (82)..(83)
<223> n is a, c, g, or t

```

```

<220>
<221> misc_feature
<222> (101)..(101)
<223> n is a, c, g, or t

```

```

<220>
<221> misc_feature
<222> (115)..(115)
<223> n is a, c, g, or t

```

```

<220>
<221> misc_feature
<222> (120)..(120)
<223> n is a, c, g, or t

```

```

<220>
<221> misc_feature
<222> (127)..(127)
<223> n is a, c, g, or t

```

```

<220>
<221> misc_feature
<222> (132)..(132)
<223> n is a, c, g, or t

```

```

<220>
<221> misc_feature
<222> (136)..(136)
<223> n is a, c, g, or t

```

```

<220>
<221> misc_feature

```

# 42623-0044\_seq listing

```

<222> (138)..(138)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (145)..(145)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (148)..(148)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (151)..(151)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (154)..(154)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (158)..(158)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (161)..(161)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (165)..(168)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (172)..(172)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (177)..(180)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (183)..(183)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (185)..(186)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (188)..(190)
<223> n is a, c, g, or t

```

# 42623-0044\_seq listing

<220>  
 <221> misc\_feature  
 <222> (192)..(194)  
 <223> n is a, c, g, or t

<220>  
 <221> misc\_feature  
 <222> (196)..(196)  
 <223> n is a, c, g, or t

<220>  
 <221> misc\_feature  
 <222> (198)..(198)  
 <223> n is a, c, g, or t

<400> 131  
 atncncgacc gggatcatat gacaagatgt gtatccacct taacttaatg atttttacca 60  
 aaatcattag gggattcatc anngtccagt aattcaatta naggaatcta tgcgngggan 120  
 aaacggnttg cngctncncg ctaangcnaa naantaancc ncctnnnnct angtatnnnn 180  
 ggncnntnnn annncngntt tct 203

<210> 132  
 <211> 327  
 <212> DNA  
 <213> Artificial

<220>  
 <223> partial gene with transposon insert

<220>  
 <221> misc\_feature  
 <222> (2)..(3)  
 <223> n is a, c, g, or t

<220>  
 <221> misc\_feature  
 <222> (5)..(6)  
 <223> n is a, c, g, or t

<220>  
 <221> misc\_feature  
 <222> (12)..(12)  
 <223> n is a, c, g, or t

<220>  
 <221> misc\_feature  
 <222> (15)..(15)  
 <223> n is a, c, g, or t

<220>  
 <221> misc\_feature  
 <222> (86)..(86)  
 <223> n is a, c, g, or t

<220>  
 <221> misc\_feature  
 <222> (93)..(93)  
 <223> n is a, c, g, or t

# 42623-0044\_seq listing

<220>  
 <221> misc\_feature  
 <222> (95)..(95)  
 <223> n is a, c, g, or t

<220>  
 <221> misc\_feature  
 <222> (99)..(99)  
 <223> n is a, c, g, or t

<220>  
 <221> misc\_feature  
 <222> (118)..(118)  
 <223> n is a, c, g, or t

<220>  
 <221> misc\_feature  
 <222> (122)..(122)  
 <223> n is a, c, g, or t

<220>  
 <221> misc\_feature  
 <222> (124)..(126)  
 <223> n is a, c, g, or t

<220>  
 <221> misc\_feature  
 <222> (128)..(128)  
 <223> n is a, c, g, or t

<220>  
 <221> misc\_feature  
 <222> (132)..(133)  
 <223> n is a, c, g, or t

<220>  
 <221> misc\_feature  
 <222> (138)..(138)  
 <223> n is a, c, g, or t

<220>  
 <221> misc\_feature  
 <222> (141)..(142)  
 <223> n is a, c, g, or t

<220>  
 <221> misc\_feature  
 <222> (145)..(145)  
 <223> n is a, c, g, or t

<220>  
 <221> misc\_feature  
 <222> (152)..(152)  
 <223> n is a, c, g, or t

<220>  
 <221> misc\_feature  
 <222> (154)..(154)  
 <223> n is a, c, g, or t

<220>  
 <221> misc\_feature

# 42623-0044\_seq listing

```

<222> (157)..(157)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (160)..(160)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (163)..(164)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (166)..(166)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (168)..(168)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (171)..(171)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (173)..(173)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (180)..(180)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (182)..(182)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (184)..(184)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (186)..(187)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (190)..(190)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (193)..(193)
<223> n is a, c, g, or t

```

# 42623-0044\_seq listing

```

<220>
<221> misc_feature
<222> (196)..(196)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (198)..(199)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (201)..(201)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (205)..(205)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (213)..(213)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (215)..(215)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (218)..(218)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (222)..(222)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (239)..(239)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (241)..(242)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (250)..(250)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (253)..(254)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (256)..(256)

```



## 42623-0044\_seq listing

<223> n is a, c, g, or t

<220>

<221> misc\_feature

<222> (262)..(267)

<223> n is a, c, g, or t

<220>

<221> misc\_feature

<222> (271)..(271)

<223> n is a, c, g, or t

<220>

<221> misc\_feature

<222> (275)..(275)

<223> n is a, c, g, or t

<220>

<221> misc\_feature

<222> (283)..(283)

<223> n is a, c, g, or t

<220>

<221> misc\_feature

<222> (287)..(287)

<223> n is a, c, g, or t

<220>

<221> misc\_feature

<222> (292)..(293)

<223> n is a, c, g, or t

<220>

<221> misc\_feature

<222> (295)..(295)

<223> n is a, c, g, or t

<220>

<221> misc\_feature

<222> (299)..(299)

<223> n is a, c, g, or t

<220>

<221> misc\_feature

<222> (301)..(301)

<223> n is a, c, g, or t

<220>

<221> misc\_feature

<222> (305)..(305)

<223> n is a, c, g, or t

<220>

<221> misc\_feature

<222> (311)..(311)

<223> n is a, c, g, or t

<220>

<221> misc\_feature

<222> (313)..(313)

<223> n is a, c, g, or t

<220>

# 42623-0044\_seq listing

<221> misc\_feature  
<222> (315)..(315)  
<223> n is a, c, g, or t

<220>  
<221> misc\_feature  
<222> (317)..(317)  
<223> n is a, c, g, or t

<220>  
<221> misc\_feature  
<222> (319)..(319)  
<223> n is a, c, g, or t

<220>  
<221> misc\_feature  
<222> (322)..(322)  
<223> n is a, c, g, or t

<220>  
<221> misc\_feature  
<222> (327)..(327)  
<223> n is a, c, g, or t

<400> 132  
anncnncgac cnggntcata tgacaagatg tgtatccacc ttaacttaat gatttttacc 60  
aaaatcatta ggggattcat cagtcnggcc gancnggcna tttccaccga ggcttatntc 120  
cncnnntntc gnnctagncg nngcntggcc angnttnecn cennctnac ncnctccatn 180  
antntnnccn ctntcncna ntacngtgcc cgngnatncc cntcctccgt cggccccnc 240  
nngcttagcn gcnnantggc cnnnnnncaa nttangacga tcngccngcc cnnnaacng 300  
ngttngccat ntncntncnc tnttatn 327

<210> 133  
<211> 484  
<212> DNA  
<213> Artificial

<220>  
<223> partial gene with transposon insert

<220>  
<221> misc\_feature  
<222> (3)..(3)  
<223> n is a, c, g, or t

<400> 133  
cgnccgcatc cgggatcata tgacaagatg tgtatccacc ttaacttaat gatttttacc 60  
aaaatcatta ggggattcat cagaggcaag tccgtatgca aatctcctcg ggcaaaaagc 120  
gcccggaact ctgcttcaaa acctgaagcc aacatctgat gaaaacgctg ctcaatgcgt 180  
tgatggagca gttcacggct cgccggggcg atggcgaact gatgcacctg atacggtaga 240  
gcgtctcctg acgtttgcgt cagttccgtt aaagttttac ccgaaatgaa aaaaacttcc 300

# 42623-0044\_seq listing

```

agtgcccgga aaagcctttg tggatcattt ggaatgaatcc ttgctgccgc aaccggatct 360
acctcctgaa gttgacgatg caatgactcc caaccttgct ctgccgcctg ttgctcaatt 420
ctggcccgtg cttccgggtc tgccgacggt agcggcgaca acccttccag caatgccttg 480
aaat 484

```

```

<210> 134
<211> 300
<212> DNA
<213> Artificial

```

```

<220>
<223> partial gene with transposon insert

```

```

<220>
<221> misc_feature
<222> (2)..(2)
<223> n is a, c, g, or t

```

```

<220>
<221> misc_feature
<222> (135)..(135)
<223> n is a, c, g, or t

```

```

<400> 134
gncggatccg gtatatatga caagatgtgt atccacctta acttaatgat ttttaccaaa 60
atcattaggg gattcatcag gatggggcat caaccagata gcttcattgc ttaagaaaag 120
taataaaaact atcancgccc aaaaaaacag tgcgatgcgt cgactggcaa ttcacagcaa 180
cgctgaaatg tatgcatgga taaatagcgc gcaggggtgca agagaactta acttgccttc 240
tgtttatgga gatgccgcag aatggaacac agccgaatta agaagagaaa tgtcgcactc 300

```

```

<210> 135
<211> 388
<212> DNA
<213> Artificial

```

```

<220>
<223> partial gene with transposon insert

```

```

<220>
<221> misc_feature
<222> (1)..(3)
<223> n is a, c, g, or t

```

```

<220>
<221> misc_feature
<222> (368)..(368)
<223> n is a, c, g, or t

```

```

<400> 135
nnnaaagcac gccggacatc cgatccggga tcatatgaca agatgtgtat ccaccttaac 60
ttaatgattt ttacaaaaat cattagggga ttcacagac ccaatattgc cccagggcg 120

```

# 42623-0044\_seq listing

```

gaataatttg ccccgctctt tttaatcgct gatagtgaga aataacgtct ttataacgat 180
cgcgagttat aacgcgccaa gatgatcaac ctgaatacgc tggactggg cagtgcggtc 240
tggtttatcg tgccacagaa tttctaattgc agcgtattgg gcgagggcgc gatcggcaat 300
ggcataacgt tcactttcac tgcgcgtagg cataaacgac agtctgacca gttcggcatg 360
aatatcancg cgaatagtag tagtcgac 388

```

```

<210> 136
<211> 345
<212> DNA
<213> Artificial

```

```

<220>
<223> partial gene with transposon insert

```

```

<220>
<221> misc_feature
<222> (1)..(4)
<223> n is a, c, g, or t

```

```

<220>
<221> misc_feature
<222> (10)..(10)
<223> n is a, c, g, or t

```

```

<220>
<221> misc_feature
<222> (319)..(320)
<223> n is a, c, g, or t

```

```

<220>
<221> misc_feature
<222> (322)..(324)
<223> n is a, c, g, or t

```

```

<400> 136
nnnngaagcn cgccggacat cccggatccg ggatcatatg acaagatgtg tatccacctt 60
aacttaatga tttttaccaa aatcattagg ggattcatca gtaccacgcc cctaattattg 120
ctattgtaat accaataatt tgctaaggcc tctgactttc tggccgcaat caatacgacc 180
tgtttcccct ttaccgcgga taaccattca ttatcacggt ttataaattc agataaagaa 240
tccgtactga gattgataaa cacgaaatct tttctaattt tctccaacga tagataaatt 300
aatctgtcga tatccccnn cnngtacta gtcgacgcgt ggcca 345

```

```

<210> 137
<211> 452
<212> DNA
<213> Artificial

```

```

<220>
<223> partial gene with transposon insert

```

# 42623-0044\_seq listing

<220>  
 <221> misc\_feature  
 <222> (1)..(1)  
 <223> n is a, c, g, or t

<220>  
 <221> misc\_feature  
 <222> (451)..(451)  
 <223> n is a, c, g, or t

<400> 137  
 nacgaccgga tccgggatca tatgacaaga tgtgtatcca ccttaactta atgattttta 60  
 ccaaaatcat taggggattc atcagggcca gaagccgact tcagttctat tttttgctgg 120  
 cagtggcgaa tgccgtcgtg ttaattgtct gggcgctgta caataagctg cgttttcaaa 180  
 aacagcagca tcatgcagcc taccaatata cgccgcaaga atatgcagag agcttagcaa 240  
 tacctgatga gctctatcag caactacaaa aaagccacag gatgagcgta cacttcacca 300  
 gccaggggca aataaaaatg gttgtttcag aaaaagcgct agtccgggca taaacaccca 360  
 aaacaaagcc cggttcgccc gggctctgca ccgataacac acttaactgt aggcattgcag 420  
 cgtacgttgg caaagtgccg aacgtacgca nt 452

<210> 138  
 <211> 350  
 <212> DNA  
 <213> Artificial

<220>  
 <223> partial gene with transposon insert

<220>  
 <221> misc\_feature  
 <222> (2)..(2)  
 <223> n is a, c, g, or t

<220>  
 <221> misc\_feature  
 <222> (5)..(5)  
 <223> n is a, c, g, or t

<220>  
 <221> misc\_feature  
 <222> (70)..(70)  
 <223> n is a, c, g, or t

<220>  
 <221> misc\_feature  
 <222> (113)..(113)  
 <223> n is a, c, g, or t

<220>  
 <221> misc\_feature  
 <222> (121)..(121)  
 <223> n is a, c, g, or t

# 42623-0044\_seq listing

```

<220>
<221> misc_feature
<222> (137)..(137)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (140)..(140)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (145)..(145)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (148)..(148)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (163)..(163)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (175)..(175)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (179)..(180)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (194)..(195)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (201)..(201)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (206)..(207)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (212)..(212)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (214)..(214)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (216)..(216)

```

<223> n is a, c, g, or t

<220>

<221> misc\_feature

<222> (218)..(218)

<223> n is a, c, g, or t

<220>

<221> misc\_feature

<222> (224)..(225)

<223> n is a, c, g, or t

<220>

<221> misc\_feature

<222> (228)..(229)

<223> n is a, c, g, or t

<220>

<221> misc\_feature

<222> (231)..(233)

<223> n is a, c, g, or t

<220>

<221> misc\_feature

<222> (241)..(241)

<223> n is a, c, g, or t

<220>

<221> misc\_feature

<222> (245)..(245)

<223> n is a, c, g, or t

<220>

<221> misc\_feature

<222> (253)..(253)

<223> n is a, c, g, or t

<220>

<221> misc\_feature

<222> (258)..(258)

<223> n is a, c, g, or t

<220>

<221> misc\_feature

<222> (261)..(262)

<223> n is a, c, g, or t

<220>

<221> misc\_feature

<222> (264)..(264)

<223> n is a, c, g, or t

<220>

<221> misc\_feature

<222> (272)..(272)

<223> n is a, c, g, or t

<220>

<221> misc\_feature

<222> (276)..(277)

<223> n is a, c, g, or t

<220>

## 42623-0044\_seq listing

<221> misc\_feature  
<222> (282)..(282)  
<223> n is a, c, g, or t

<220>  
<221> misc\_feature  
<222> (287)..(287)  
<223> n is a, c, g, or t

<220>  
<221> misc\_feature  
<222> (289)..(289)  
<223> n is a, c, g, or t

<220>  
<221> misc\_feature  
<222> (291)..(292)  
<223> n is a, c, g, or t

<220>  
<221> misc\_feature  
<222> (294)..(294)  
<223> n is a, c, g, or t

<220>  
<221> misc\_feature  
<222> (296)..(296)  
<223> n is a, c, g, or t

<220>  
<221> misc\_feature  
<222> (299)..(300)  
<223> n is a, c, g, or t

<220>  
<221> misc\_feature  
<222> (307)..(308)  
<223> n is a, c, g, or t

<220>  
<221> misc\_feature  
<222> (311)..(311)  
<223> n is a, c, g, or t

<220>  
<221> misc\_feature  
<222> (314)..(316)  
<223> n is a, c, g, or t

<220>  
<221> misc\_feature  
<222> (318)..(319)  
<223> n is a, c, g, or t

<220>  
<221> misc\_feature  
<222> (321)..(321)  
<223> n is a, c, g, or t

<220>  
<221> misc\_feature  
<222> (323)..(323)  
<223> n is a, c, g, or t



# 42623-0044\_seq listing

<220>  
 <221> misc\_feature  
 <222> (327)..(327)  
 <223> n is a, c, g, or t

<220>  
 <221> misc\_feature  
 <222> (338)..(338)  
 <223> n is a, c, g, or t

<220>  
 <221> misc\_feature  
 <222> (342)..(342)  
 <223> n is a, c, g, or t

<220>  
 <221> misc\_feature  
 <222> (347)..(347)  
 <223> n is a, c, g, or t

<220>  
 <221> misc\_feature  
 <222> (349)..(350)  
 <223> n is a, c, g, or t

<400> 138	
anacncgtcc gggatcatat gacaagatgt gtatccacct taactt <del>a</del> aatg atttttacca	60
aaatcattan gggattcatc agtgtggtgt ccggtaaata tgaaaaaggc atnaaactgc	120
nccacgagcc cactgcnaa <del>n</del> gatgnggnaa tctccgcccc gcngcctctc tggcnggtnn	180
ccgttctcac cttnnacacc nccccnngct cncntncnct ccnnacnnc nntttctctc	240
ngcanccac ttnatctncc nncnccctcc cnacgnntcc cccccncng nncnantgnn	300
ttggctnncg nccnnnannc ncntcnttcc tggcctcnct cnttacn <del>c</del> nn	350

<210> 139  
 <211> 190  
 <212> DNA  
 <213> Artificial

<220>  
 <223> partial gene with transposon insert

<220>  
 <221> misc\_feature  
 <222> (1)..(2)  
 <223> n is a, c, g, or t

<220>  
 <221> misc\_feature  
 <222> (158)..(159)  
 <223> n is a, c, g, or t

<220>  
 <221> misc\_feature  
 <222> (163)..(166)  
 <223> n is a, c, g, or t

# 42623-0044\_seq listing

<220>  
 <221> misc\_feature  
 <222> (189)..(190)  
 <223> n is a, c, g, or t

<400> 139  
 nncgatccgg gatcattgac aagatgtgta tccaccttaa cttaatgatt tttaccaaaa 60  
 tcattagggg attcatcagc acttggtgcc acgtggcaaa atattctcga tcgaccaact 120  
 catcgccaaa ttttacttgt ttatccgctg gcatatcnnc ccnnnncgta ctagtcgacg 180  
 cgtggccann 190

<210> 140  
 <211> 455  
 <212> DNA  
 <213> Artificial

<220>  
 <223> partial gene with transposon insert

<220>  
 <221> misc\_feature  
 <222> (3)..(3)  
 <223> n is a, c, g, or t

<220>  
 <221> misc\_feature  
 <222> (426)..(427)  
 <223> n is a, c, g, or t

<220>  
 <221> misc\_feature  
 <222> (429)..(429)  
 <223> n is a, c, g, or t

<220>  
 <221> misc\_feature  
 <222> (432)..(432)  
 <223> n is a, c, g, or t

<400> 140  
 cgnccggatc cgggatcata tgacaagatg tgtatccacc ttaacttaat gatTTTTacc 60  
 aaaatcatta ggggattcat cagggcatca accagatagc ttcattgctt aagaaaagta 120  
 ataaaactat cagcgcccaa aaaaacagtg cgatgcgtcg actggcaatt cacagcaacg 180  
 ctgaaatgta tgcattggata aatagcgcgc aggggtgcaag agaacttaac ttgccttctg 240  
 tttatggaga tgccgcagaa tggaacacag ccgaattaag aagagaaatg tcgcactcat 300  
 agaaaaatgc gtcattgagta gtatcggatg tgagagttaa ttcagaaagt ttgcgggtaa 360  
 cccttataag ctccatacct ataccagtca ggagtcattt caggatgcca tgcgcgggat 420  
 atcccnncnc cncgtactag tcgacgcgtg gccaa 455

42623-0044\_seq listing

<210> 141  
 <211> 224  
 <212> DNA  
 <213> Artificial

<220>  
 <223> partial gene with transposon insert

<220>  
 <221> misc\_feature  
 <222> (5)..(5)  
 <223> n is a, c, g, or t

<220>  
 <221> misc\_feature  
 <222> (7)..(7)  
 <223> n is a, c, g, or t

<220>  
 <221> misc\_feature  
 <222> (189)..(189)  
 <223> n is a, c, g, or t

<220>  
 <221> misc\_feature  
 <222> (191)..(191)  
 <223> n is a, c, g, or t

<220>  
 <221> misc\_feature  
 <222> (193)..(198)  
 <223> n is a, c, g, or t

<220>  
 <221> misc\_feature  
 <222> (222)..(222)  
 <223> n is a, c, g, or t

<220>  
 <221> misc\_feature  
 <222> (224)..(224)  
 <223> n is a, c, g, or t

<400> 141  
 aaaancncgc cggacatccc ggatccggga tcatatgaca aggatgtgta tccaccttaa 60  
 cttaatgatt tttaacaaaa tcattagggg attcatcagt attaatcgcc aataatccct 120  
 cattaataaga gtttgcccag caaattatta ccgtacagga aaaatcacca caacggataa 180  
 tgcatatcnc ncnnnnnngt actagtcgac gcgtggccac anan 224